

20020918.qrp v02\_n682.qrl.20020918

Date: Wed, 18 Sep 2002 19:03:09 EDT  
From: qrp-l@Lehigh.EDU  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: QRP-L digest 2682

QRP-L Digest 2682

Topics covered in this issue include:

- 1) [135311] re: F/S as LOT SOLD  
by N4SKS@cs.com
- 2) [135312] Re: A thought  
by Dave Richards <wr3i@earthlink.net>
- 3) [135313] Re: A thought  
by Dave Richards <wr3i@earthlink.net>
- 4) [135314] Rock-Mite at 50 mW out...SW VA to a MOBILE in Joplin, MO...too cool!  
by "Bill, N4QA" <n4qa@hotmail.com>
- 5) [135315] QRP Nets ? / CW  
by Fghester@aol.com
- 6) [135316] SW 40+ Audio  
by Rick McKee <kc8aon@juno.com>
- 7) [135317] Re: 'Capacigrad' frequency linear variable capacitors  
by Bruce Muscolino <w6toy@erols.com>
- 8) [135318] Re: SW 40+ Audio  
by "Ian Wilson" <ianmwilson@earthlink.net>
- 9) [135319] RE: Magnetic shielding for vfo's  
by Karl Kanalz <kkanalz@gceecisp.com>
- 10) [135320] Re: Used EZ-Hang or Equivalent Device  
by n5ib@juno.com
- 11) [135321] 4053 Mixer on harmonics?  
by "Ian Wilson" <ianmwilson@earthlink.net>
- 12) [135322] Re: 'Capacigrad' frequency linear variable capacitors  
by Chris Trask <ctrask@primenet.com>
- 13) [135323] My Old Argonaut 509 (very long)  
by David Gauding <david.gauding@bbs.galilei.com>
- 14) [135324] re: [135283] A thought  
by john <johnmb@nc.rr.com>
- 15) [135325] RE:Weights For the "E-Z Hang"  
by Karl Kanalz <kkanalz@gceecisp.com>
- 16) [135326] VFO CONSTRUCTION/MATERIALS?  
by "W2WU" <w2wurjj@verizon.net>
- 17) [135327] Re: A thought  
by Larry Cahoon <lejek@erols.com>
- 18) [135328] Fans and anemometers - was Whooda thunk it...  
by "David B. Sarraf" <david.sarraf@paonline.com>
- 19) [135329] Re: 4053 Mixer on harmonics?

- by David Hinerman <WD8CIV@worldnet.att.net>
- 20) [135330] Re: Used EZ-Hang or Equivalent Device  
by David Hinerman <WD8CIV@worldnet.att.net>
- 21) [135331] Re: A thought  
by Alex <kr1st@amsat.org>
- 22) [135332] OT:IRLP&EchoLink  
by JD Delancy <W1JD@drix.net>
- 23) [135333] Announcement: W8KC "Golden Post" Award #1  
by Paul Valko <w8kc@comcast.net>
- 24) [135334] Re: Used EZ-Hang or Equivalent Device  
by john <john@wagner-usa.net>
- 25) [135335] Re: SLV vertical...  
by Bill Coleman <aa4lr@arrl.net>
- 26) [135336] Re: TS-830S radio  
by Bill Coleman <aa4lr@arrl.net>
- 27) [135337] Re: The center fed 88 foot dipole (or doublet)  
by Bill Coleman <aa4lr@arrl.net>
- 28) [135338] Re: Wire and ferrite baluns  
by Bill Coleman <aa4lr@arrl.net>
- 29) [135339] Re: Wire and ferrite baluns  
by Bill Coleman <aa4lr@arrl.net>
- 30) [135340] Re: Wire and ferrite baluns  
by Bill Coleman <aa4lr@arrl.net>
- 31) [135341] FS or Swap: JPS NRF-7 DSP General Purpose Noise Remover and Filter  
by Dave Redfearn <n4elm@attbi.com>
- 32) [135342] Re: 4053 Mixer on harmonics?  
by "Ian Wilson" <ianmwilson@earthlink.net>
- 33) [135343] QRPvs.QRO  
by "W2WU" <w2wurjj@verizon.net>
- 34) [135344] Re: [135283] A thought  
by "Trevor Jacobs" <kg6cyn@earthlink.net>
- 35) [135345] What's scarier than mounting surface mount parts?  
by "Rod N0RC" <rod@n0rc.us>
- 36) [135346] Re: Announcement: W8KC "Golden Post" Award #1  
by Chuck Adams <k7qo@earthlink.net>
- 37) [135347] Re: Used EZ-Hang or Equivalent Device  
by "Mark J. Dulcey" <mark@buttery.org>
- 38) [135348] Stable VFO's (I spelled it right this time!! Grin)  
by "Doug Hendricks" <ki6ds@dospalos.org>
- 39) [135349] Re: Stable VFO's (I spelled it right this time!! Grin)  
by Scott Gregson <emtech@steadynet.com>
- 40) [135350] Re: Weights For the "E-Z Hang"  
by "George, W5YR" <w5yr@att.net>
- 41) [135351] RE: QRP Power  
by "Doc Lindsey K0EVZ" <dock0evz@earthlink.net>
- 42) [135352] Re: Used EZ-Hang or Equivalent Device  
by Tom Feeny <tfeeny@comcast.net>
- 43) [135353] Considering selling my Jones iambic paddle

by "Scott Rosenfeld [N7JI]" <ham@w3eax.umd.edu>  
44) [135354] Re: Used EZ-Hang or Equivalent Device  
by "Jack Bennett" <J.Bennett@lboro.ac.uk>  
45) [135355] Re: Weights For the "E-Z Hang"  
by "Trevor Jacobs" <kg6cyn@earthlink.net>  
46) [135356] curtis keyer chip?  
by "Michael Bower N4NMR" <bowerm@ix.netcom.com>  
47) [135357] Re: A thought  
by Bruce Muscolino <w6toy@erols.com>  
48) [135358] Re: QRP Nets ? / CW  
by Jimmy Lee <jrlaudio@bellsouth.net>  
49) [135359] Re: Weights For the "E-Z Hang"  
by Bruce Muscolino <w6toy@erols.com>  
50) [135360] Re: curtis keyer chip?  
by Patrick Gardella <pgardella@yahoo.com>  
51) [135361] Re: Used EZ-Hang or Equivalent Device  
by Bruce Muscolino <w6toy@erols.com>  
52) [135362] Re: QRPvs.QRO  
by Bruce Muscolino <w6toy@erols.com>  
53) [135363] Re: VFO CONSTRUCTION/MATERIALS?  
by Bruce Muscolino <w6toy@erols.com>  
54) [135364] Re: Stable VFO's (I spelled it right this time!! Grin)  
by Bruce Muscolino <w6toy@erols.com>  
55) [135365] Re: My Old Argonaut 509 (very long)  
by Bruce Muscolino <w6toy@erols.com>  
56) [135366] Re: Used EZ-Hang or Equivalent Device  
by "John Huffman" <hjohnc@core.com>  
57) [135367] Re: Used EZ-Hang or Equivalent Device  
by "John O. Newell" <jnewell@attbi.com>  
58) [135368] Re: SW 40+ Audio  
by "Lee Mairs" <lmairs@cox.net>  
59) [135369] Re: Used EZ-Hang or Equivalent Device  
by "Lee Mairs" <lmairs@cox.net>  
60) [135370] blast from the (recent) past  
by David Hinerman <WD8CIV@worldnet.att.net>  
61) [135371] RE: Stable (Varactor-tuned) VFO's  
by Karl Kanalz <kkanalz@gcecispc.com>  
62) [135372] Re: Used EZ-Hang or Equivalent Device  
by Lloyd Lachow <llachow@yahoo.com>  
63) [135373] Re: curtis keyer chip?  
by "Mark Andrews" <KE4IOF@ke4iof.com>  
64) [135374] Fwd: Announcement: W8KC "Golden Post" Award #1  
by David Gauding <david.gauding@bbs.galilei.com>  
65) [135375] Re: Used EZ-Hang or Equivalent Device  
by W2AGN <w2agn@w2agn.net>  
66) [135376] Re: What's scarier than mounting surface mount parts?  
by "" <markb@abq.com>  
67) [135377] EZ-Hang & Equivalents

- by "ss lyon" <sslyon@megalink.net>
- 68) [135378] Re: Used EZ-Hang or Equivalent Device  
by "E. Roswell" <eroswell@monmouth.com>
- 69) [135379] Used EZ-Hang or Equivalent Device  
by Ed Manuel <emanuel@datacomdesign.com>
- 70) [135380] StarTek International Counter question ATH-15  
by <stanw@toxosor.com>
- 71) [135381] Antenna Launching Hints!  
by Michael Pupeza <mpupeza@sympatico.ca>
- 72) [135382] Re: What's scarier than mounting surface mount parts?  
by David Hinerman <WD8CIV@worldnet.att.net>
- 73) [135383] Re: Used EZ-Hang or Equivalent Device  
by Thom LaCosta <baltimoremd@baltimoremd.com>
- 74) [135384] Re: What's scarier than mounting surface mount parts?  
by "W3CDE Jerry L." <w3cde@bellsouth.net>
- 75) [135385] Re: Weights For the "E-Z Hang"  
by "Mark J. Dulcey" <mark@buttery.org>
- 76) [135386] Last nights NEQRP SSB NET action on 7.287Mhz  
by "Ronald A Pfeiffer" <Ronald\_A\_Pfeiffer@raytheon.com>
- 77) [135387] Re: What's scarier than mounting surface mount parts?  
by Ingo Meyer DK3RED <dk3red@gmx.net>
- 78) [135388] Re: Stable VFO's (I spelled it right this time!! Grin)  
by Lew Paceley <lew@paceley.com>
- 79) [135389] Re: What's scarier than mounting surface mount parts?  
by "" <markb@abq.com>
- 80) [135390] Re: What's scarier than mounting surface mount parts?  
by David Hinerman <WD8CIV@worldnet.att.net>
- 81) [135391] Re: curtis keyer chip?  
by "Mark J. Dulcey" <mark@buttery.org>
- 82) [135392] Re: Weights For the "E-Z Hang"  
by Ed Tanton <n4xy@earthlink.net>
- 83) [135393] Re: Weights For the "E-Z Hang"  
by David Hinerman <WD8CIV@worldnet.att.net>
- 84) [135394] RE: Weights For the "E-Z Hang"  
by "KD5NWA" <KD5NWA@mbayona.com>
- 85) [135395] Re: What's scarier than mounting surface mount parts?  
by "" <markb@abq.com>
- 86) [135396] Re: Stable VFO's (I spelled it right this time!! Grin)  
by "Rick Tyler" <rp.tyler@worldnet.att.net>
- 87) [135397] Re: What's scarier than mounting surface mount parts?  
by Ingo Meyer DK3RED <dk3red@gmx.net>
- 88) [135398] Re: Antenna Launching Hints!  
by Chris Cartwright <ccart@phideaux.com>
- 89) [135399] RE: Great QRP column by K7SZ  
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
- 90) [135400] Re: Antenna Launching Hints!  
by kwiike@gdls.com
- 91) [135401] Re: What's scarier than mounting surface mount parts?

- by Bruce Muscolino <w6toy@erols.com>
- 92) [135402] Re: Antenna Launching Hints!  
by Bruce Muscolino <w6toy@erols.com>
- 93) [135403] RE: Antenna Launching Hints!  
by Mark Schoonover <schoon@amgt.com>
- 94) [135404] Re: What's scarier than mounting surface mount parts?  
by Garey Barrell <k4oah@mindspring.com>
- 95) [135405] FSQRP Wednesday Warble  
by "David Bixler" <qrp@netins.net>
- 96) [135406] QST: Great QRP Power by K7SZ  
by Jim Stafford <jim@byjimny.com>
- 97) [135407] Re: Antenna Launching Hints!  
by "Tim, N9PUZ" <n9puz@arrl.net>
- 98) [135408] Re: What's scarier than mounting surface mount parts?  
by Bruce Muscolino <w6toy@erols.com>
- 99) [135409] Re: Stable VFO's (I spelled it right this time!! Grin)  
by "Juan Ferrari" <puntrad@usa.net>
- 100) [135410] Re: My Old Argonaut 509 (very long)  
by "Jim" <ku4qw@yahoo.com>
- 101) [135411] Re: Antenna Launching Hints  
by "Charles W3KC" <w3kc@starpower.net>
- 102) [135412] Re: What's scarier than mounting surface mount parts?  
by David Hinerman <WD8CIV@worldnet.att.net>
- 103) [135413] FS: original NJQRP SMK-1 enclosure kit unbuilt with decal  
by "Ronald A Pfeiffer" <Ronald\_A\_Pfeiffer@raytheon.com>
- 104) [135414] Re: My Old Argonaut 509 (very long)  
by W2AGN <w2agn@w2agn.net>
- 105) [135415] OT -- Radio Frequency Spectrum Chart needed  
by "Steve Blary" <steve@eclipsecat.com>
- 106) [135416] Re: My Old Argonaut 509 (very long)  
by JLeRoy@automationdirect.com
- 107) [135417] Re: Magnetic shielding for vfo's  
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 108) [135418] RE: OT -- Radio Frequency Spectrum Chart needed  
by "Steve Blary" <steve@eclipsecat.com>
- 109) [135419] FOR SALE TEN-TEC PM2A, AC4, ARGONAUT 2  
by "Ed Kessler" <aa3sj@arrl.net>
- 110) [135420] Re: The center fed 88 foot dipole (or doublet)  
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 111) [135421] Re: Antenna Launching Hints!  
by "M.J.Powell" <mike@pickmere.demon.co.uk>
- 112) [135422] Re: Weights For the "E-Z Hang"  
by Thom LaCosta <baltimoremd@baltimoremd.com>
- 113) [135423] RE: OT -- Radio Frequency Spectrum Chart needed  
by Mark Schoonover <schoon@amgt.com>
- 114) [135424] WTB: Heathkit HX20 or MT-1  
by "Alan Fryer" <N3BJ@hotmail.com>
- 115) [135425] Re: My Old Argonaut 509 (very long)

by Bruce Muscolino <w6toy@erols.com>  
116) [135426] Ten Tec KR 5 Keyer  
by Marv Fagenson <k6hcj@juno.com>  
117) [135427] Re: My Old Argonaut 509 (very long)  
by "Winston F. Jones" <winjones@ix.netcom.com>  
118) [135428] Fw: forward from GQRP list for Paul Harden  
by "Stuart Rohre" <rohre@arlut.utexas.edu>  
119) [135429] razor blade and galena detectors  
by "Stuart Rohre" <rohre@arlut.utexas.edu>  
120) [135430] wire to insulator  
by "Stuart Rohre" <rohre@arlut.utexas.edu>  
121) [135431] Re: QRPvs.QRO  
by Rick McKee <kc8aon@juno.com>  
122) [135432] Re: Used EZ-Hang or Equivalent Device  
by Rick McKee <kc8aon@juno.com>  
123) [135433] Re: Used EZ-Hang or Equivalent Device  
by "Mike Yetsko" <myetsko@insydesw.com>  
124) [135434] Re: What's scarier than mounting surface mount parts?  
by "Mike Yetsko" <myetsko@insydesw.com>  
125) [135435] VFO test, tuna cans here are aluminum, not magnetically shielded  
by "Stuart Rohre" <rohre@arlut.utexas.edu>  
126) [135436] Re: What's scarier than mounting surface mount parts?  
by "Mike Yetsko" <myetsko@insydesw.com>  
127) [135437] Roof Tower Thoughts?  
by Dave Richards <wr3i@earthlink.net>  
128) [135438] Re: Antenna Launching Hints!  
by "Mike Yetsko" <myetsko@insydesw.com>  
129) [135439] Re: Great QRP column by K7SZ  
by "K7SZ" <rarland@earthlink.net>  
130) [135440] RE: OT -- Radio Frequency Spectrum Chart needed  
by Nick Kennedy <nkennedy@tcainternet.com>  
131) [135441] Re: Used EZ-Hang or Equivalent Device  
by "Mike Yetsko" <myetsko@insydesw.com>

-----  
Date: Tue, 17 Sep 2002 18:57:34 EDT  
From: N4SKS@cs.com  
To: qrp-l@lehigh.edu  
Subject: [135311] re: F/S as LOT      SOLD  
Message-ID: <41.23799705.2ab90d5e@cs.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Thanks for those who responded . I have sold the lot .

K4NK

-----  
Date: Tue, 17 Sep 2002 18:59:52 -0400  
From: Dave Richards <wr3i@earthlink.net>  
To: w6toy@erols.com,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135312] Re: A thought  
Message-ID: <5.1.1.6.2.20020917185900.009eb550@earthlink.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Bruce I don't know about the rest but I am I-polar  
Dave  
WR3I

At 03:10 PM 9/17/2002 -0400, Bruce Muscolino wrote:  
>Since making a few mistaken posts about the TS830, which I do apologize  
>for, an interesting point has made itself evident. There seem to be a  
>whole lot of you who actually have and use QRO equipment, including the  
>TS830. Now, are you all closet QRPers or closet QROers?  
>  
>73

-----  
Date: Tue, 17 Sep 2002 19:05:57 -0400  
From: Dave Richards <wr3i@earthlink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>,  
wr3i@earthlink.net  
Subject: [135313] Re: A thought  
Message-ID: <NM31WV2VIGZPNCB96UR3VE6ZIGXSD.3d87b555@Home4>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

That should have been Di-polar  
:-<  
Dave

9/17/2002 6:59:52 PM, Dave Richards <wr3i@earthlink.net> wrote:

>Bruce I don't know about the rest but I am I-polar  
>Dave  
>WR3I  
>  
>At 03:10 PM 9/17/2002 -0400, Bruce Muscolino wrote:  
>>Since making a few mistaken posts about the TS830, which I do apologize

>>for, an interesting point has made itself evident. There seem to be a  
>>whole lot of you who actually have and use QRO equipment, including the  
>>TS830. Now, are you all closet QRPers or closet QROers?

>>

>>73

>

>

-----  
Date: Tue, 17 Sep 2002 19:05:21 -0400  
From: "Bill, N4QA" <n4qa@hotmail.com>  
To: qrp-l@lehigh.edu  
Subject: [135314] Rock-Mite at 50 mW out...SW VA to a MOBILE in Joplin, MO...too cool!  
Message-ID: <F90CWEWEu6eA6Zi6qWq00004c7f@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

We all know that when condx are hot, it doesn't take a lot of power to get out...especially on the upper hf bands where s/n can be phenomenal sometimes...

Still, it's very exciting...for me, at least, when I call CQ running a mere 50,000 microwatts and receive an answer...this time from:

Kelly, WB0WQS/M/QRP who runs an IC-706 at 5 watts to a Hamstick.

Kelly was mobiling east of Joplin when he heard my CQ.

Kelly gave me 539 and I gave Kelly 579...we were on 14059.5 kHz, approx.

I was on the 250-ft end-fed, 17-gauge, solid-aluminum longwire(a little under 4 wavelengths on 20) as usual.

All I did to run 50 mW out was to adjust the Heathkit IP-18 supply to 6.805 VDC (according to the Fluke 8060A...has something like .05% basic accuracy for DC volts) and read power out with the OHR WM-2 in the 100 mW full-scale range.

Still had 600 or 700 Hz t/r shift at this low voltage...

Love my Rock-Mite-20!

73.

Bill, N4QA

<http://www.qsl.net/n4qa/>

-----  
Join the world s largest e-mail service with MSN Hotmail.  
<http://www.hotmail.com>



-----  
Date: Tue, 17 Sep 2002 19:09:13 EDT  
From: Fghester@aol.com  
To: qrp-l@lehigh.edu  
Subject: [135315] QRP Nets ? / CW  
Message-ID: <1aa.8a47e15.2ab91019@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Can anyone direct me to a current list of CW QRP nets? Thanks! / Woody / WD9F

-----  
Date: Tue, 17 Sep 2002 19:20:30 -0400  
From: Rick McKee <kc8aon@juno.com>  
To: qrp-l@lehigh.edu  
Subject: [135316] SW 40+ Audio  
Message-ID: <20020917.192039.8958.1.kc8aon@juno.com>

Gang,

Has anyone on the list added an audio amp and internal speaker to the SW 40+ ? How did you go about it, or are there any webpages you can point me to ? Also, I keep hearing about a 5 watt mod for the Sw 40+, but after doing several searches, cannot find any info. Does anyone have a link for this or any other useful mods for the rig ?

72/73 DE: [K] [C] [8] [A] [O] [N]

Rick McKee

Willow Wood, Ohio

QRP- do more with less !

QRP-L #2112, FPqrp #33, AR QRP #269

-----  
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Date: Tue, 17 Sep 2002 19:42:21 -0400  
From: Bruce Muscolino <w6toy@erols.com>  
To: tracy@bytemark.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>

Subject: [135317] Re: 'Capacigrad' frequency linear variable capacitors  
Message-ID: <3D87BDDD.E81C6F92@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I have never heard the word "Capacigrad". I have heard "straight line frequency", "straight line wavelength". "Capacigrad" may be a brand specific reference.

The "Straight Line" terms were used by National for their capacitors. In any event, I doubt anyone still makes any of these, and if they do, they want a minimum order of 500 units and a lot of money!

73

-----  
Date: Tue, 17 Sep 2002 16:47:00 -0700  
From: "Ian Wilson" <ianmwilson@earthlink.net>  
To: <kc8aon@juno.com>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135318] Re: SW 40+ Audio  
Message-ID: <002c01c25ea4\$84e76580\$0b02a8c0@trabucoserver>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Try the Norcal page for a 5w mod that I imagine would work with the SW 40+:  
<http://www.fix.net/~jparkernorcal/smk1/5wattmod/5wattmod.htm>

Also, there are some RIT mods described here:  
<http://www.qsl.net/kf4trd/mods.htm>

Hope this helps. 73 de ian, k3imw/6.

----- Original Message -----  
From: "Rick McKee" <kc8aon@juno.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Tuesday, September 17, 2002 4:20 PM  
Subject: SW 40+ Audio

> Gang,  
> Has anyone on the list added an audio amp and internal speaker to the  
> SW 40+ ? How did you go about it, or are there any webpages you can

> point me to ? Also, I keep hearing about a 5 watt mod for the Sw 40+,  
> but after doing several searches, cannot find any info. Does anyone have  
> a link for this or any other useful mods for the rig ?

>  
> 72/73 DE: [K] [C] [8] [A] [O] [N]  
> Rick McKee  
> Willow Wood, Ohio  
> QRP- do more with less !  
> QRP-L #2112, FPqrp #33, AR QRP #269

> -----  
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> <http://dl.www.juno.com/get/web/>.

-----  
Date: Tue, 17 Sep 2002 19:06:23 -0500  
From: Karl Kanalz <kkanalz@gcecispc.com>  
To: "'rohre@arlut.utexas.edu'" <rohre@arlut.utexas.edu>,  
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135319] RE: Magnetic shielding for vfo's  
Message-ID: <01C25E7D.5B3AD360@KKANALZ>

Collins Radio PT0s were in a "can" (of sorts), but 98% of them were aluminum,  
rather than steel, Stuart.

Karl K - W8TIF  
McKinney, Texas

-----Original Message-----

From: Stuart Rohre [SMTP:rohre@arlut.utexas.edu]  
Sent: Tuesday, September 17, 2002 2:43 PM  
To: Low Power Amateur Radio Discussion  
Subject: Magnetic shielding for ham vfo's

In a competition, I think there should be some standard enclosure.  
Mu Metal is hard to fasten, and is usually brazed and is quite expensive and  
comes in two types depending on the shielding requirement.

For ham radio use such as a vfo, the steel can is easily soldered, offers  
adequate shielding if sufficiently larger than the circuit being  
protected, and will establish a heat sinking action, and a stable temperature  
environment.

I would suggest use of some standard tin coated steel can, such as the no. 2 (U.S. standard) or closest metric standard can, to allow the most flexibility for either toroid or air core coil use in a VFO competition, or a PTO arrangement. Collins PTOs were placed in a can for such stability.

There are a number of export food items widely available in the world in the no. 2 can which measures 2 7/8 in. diam., and 4 7/16 in. high. Any candidate container needs to be checked with a magnet to verify it is steel rather than aluminum or some other material.

72,

Stuart K5KVH

72,

Stuart K5KVH

-----  
Date: Tue, 17 Sep 2002 20:09:32 EDT

From: n5ib@juno.com

To: qrp-1@lehigh.edu

Subject: [135320] Re: Used EZ-Hang or Equivalent Device

Message-ID: <20020917.190658.7535.0.n5ib@juno.com>

On Tue, 17 Sep 2002 15:07:28 -0400 Bruce Muscolino <w6toy@erols.com> writes:

>An EZ Hang equivalent can be easily made..... I have kept the slingshot and reel separate, >but that was a personal decision!

I second Bruce's comment. I've not been a big fan of the EZ-Hang design, with the reel just under the slingshot, because if the line should snag it's gonna pop that sinker right back at you.

I tie-wrapped my reel to a tent peg and stick it in the ground a few feet to one side of me. If there's a snag, I'm probably out of the line of fire. BTW it's getting hard to find the larger sinkers at area WalMarts. Mostly 1 oz and under these days.

72

Jim N5IB

-----  
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<http://dl.www.juno.com/get/web/>.

-----  
Date: Tue, 17 Sep 2002 17:18:22 -0700

From: "Ian Wilson" <ianmwilson@earthlink.net>

To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>

Subject: [135321] 4053 Mixer on harmonics?

Message-ID: <000601c25ea8\$e61ef3a0\$0b02a8c0@trabucoserver>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

I've seen some references to using the 4066/4053 on harmonics of the LO. I have a simulation that works OK with a 7.100MHz input and a 7MHz LO (the difference signal at 100kHz is the right amplitude). If I halve the LO frequency the component at 100kHz is pretty small. What am I missing?

de ian, k3imw/6

-----  
Date: Tue, 17 Sep 2002 17:32:07 -0700 (MST)

From: Chris Trask <ctrask@primenet.com>

To: "George, W5YR" <w5yr@att.net>

Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>

Subject: [135322] Re: 'Capacigrad' frequency linear variable capacitors

Message-ID: <Pine.BSI.3.96.1020917172700.8793A-1000000@usr01.primenet.com>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

The variable capacitors in AM radios are closer to straight-line wavelength, at least for the upper end of the scale. This was a leftover from consumer radios that were made in Europe, where the dial used to read in meters. When we lived in France in the early 1960's, we had a large tabletop Grundig multi-band radio that still had the scale in meters instead of kc/s (that's kHz to you younger people).

Chris

On Tue, 17 Sep 2002, George, W5YR wrote:

```
> Tracy, such variables go way back in time. I can recall when you could buy
> variables with plates cut for
>
>         straight-line frequency
>
>         "         " wavelength
>
>         "         " capacity
>
> Try those keywords in your search . . .
>
> Actually back when AM "radios" used variable tuning caps, the plates were
> cut for more-or-less straight-line frequency to even out the dial
> calibration. Also, the outside plates on each rotor section were usually
> slotted so that the frequency variation could be manually tweaked at
> various points in the rotor travel.
>
> 73/72, George
> Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
> Amateur Radio W5YR - the Yellow Rose of Texas
> In the 57th year and it just keeps getting better!
>
>
> Tracy Markham wrote:
> >
> > Is there some better key word than Capacigrad, frequency linear tuning
> > capacitor, etc., to find these things? Anyone have a couple they wanna part
> > with?
>
```

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/-----\
/  What's all this  \
/ extinct stuff, anyhow? \
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High Performance Mixers and  
Amplifiers for RF Communications

Chris Trask / N7ZWY  
Principal Engineer  
Sonoran Radio Research  
P.O. Box 25240  
Tempe, Arizona 85285-5240

IEEE Member #40274515

Email: [ctrask@primenet.com](mailto:ctrask@primenet.com)  
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

-----  
Date: Tue, 17 Sep 2002 19:33:51 -0500  
From: David Gauding <david.gauding@bbs.galilei.com>  
To: qrp-l@lehigh.edu  
Subject: [135323] My Old Argonaut 509 (very long)  
Message-ID: <5.1.1.6.0.20020915204138.00a25910@bbs.galilei.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Good evening,

For the last week, I've been using my old Ten-Tec Argonaut 509 transceiver on CW and SSB - anywhere from milliwatts to full output. It's a nostalgia trip of sorts - strictly for relaxation and enjoyment. Several old keys, bugs and cans are also finding they too are not being ignored.

After signing off one night, I sat in the shack for a few more minutes and decided life wasn't too bad when running this older solid-state gear. I made a preliminary outline the next day, and then some notes, and thought it might be interesting to share some of those observations here on QRP-L. Your personal experiences will surely vary from mine but there could be a few parallels along the way.

Ten-Tec advises that model 509 serial numbered 3336 was built in 1977 which puts it in the quarter-century class. I've owned this rig for nine years after searching a long time for a first-class example. KC0PP found this one at an out-of-state hamfest. He quickly paid the asking price of \$75 and offered the rig to me the next day for the same price. Keith Arns already has a complete and pristine 509 station so it evolved into a special consideration between two old friends. When I no longer want the rig, I will sell it back to him for \$75.

Over time, I had accumulated the matching Ten-Tec model 210 power supply and a FR-4 audio filter. The latter was introduced in 1972 for the earlier Argo 505 and Triton I & II transceivers. Actually, the old passive device is a bit on the primitive side. I position it under the power supply (identical cabinets) use the circuitry to bring the headphone audio output to the front - a little more gracefully.

Then my old friend AG5P offered a matching 206-A xtal calibrator as well as an always elusive 208 audio bandpass filter, both from his collection of

Ten-Tec gear. About the same time, a nicely modified AC-5 tuner found its way into the shack. A previous owner added an insulated RCA jack and interconnections so the tuner will handle coax in addition to balanced line - both of which it does surprisingly well.

Anyway, I put my Corsair I and Argonaut 515 aside for awhile and assembled the complete Argo 509 station on the operating desk. This produced a warm & fuzzy feeling immediately! There is something about that combination of Ten-Tec cream paint, black & silver controls and woodgrain end panels that just seems right. Real ham radio if you will, and even more so when there is a wall of the stuff sitting right there. You have to look pretty hard to find a scratch on the rig or the accessories - and there aren't many.

Long after it was designed/built the 509 continues to chug right along. One time, I heard them referred to as the "57 Chevy of QRP" and that is probably a fair assessment. This superhet's .5 microvolt receiver sensitivity is more than adequate for general operating and then some.

The accessory bandpass filtering is pretty good. Sometimes I wish for the third (80hz) position provided by the outboard audio filter of the model 515 (and its notch filter), but that's not a must-have thing. The 2.4 KHz four-pole IF filter is prone to blow-by on strong signals which is annoying in contest situations and pile-ups. For those pursuits, I change to a rig with better receiver.

There are no WARC bands in any early Argonaut, but I rarely get on them except to check out new antennas, or hide from QRO contests. The 10M bandspread is much too cramped for convenient tuning (corrected in the 515) but I haven't operated on that band in recent years.

The RIT feature is classic Ten-Tec. When the circuit is switched-out of line the tuning rate reverts to very fine pitch due to residual voltage. The persistent bandswitch problems of the model 505 were solved when the 509 was designed. And, the power inlet is fused which corrected another omission from the earliest Argo in the series. The finals seem to be immune to damage from all but the most vicious operators.

The internal and very sensitive SWR bridge (including s-meter) is a major plus, especially for portable operations since there is one less external accessory to worry about. The 509 qualifies as a "calm operator" rig. There are enough controls to get the job done and room between the knobs and switches to manipulate them. Some features like the headphone and microphone jacks are in the wrong place (rear panel) but you learn to adjust for those design decisions.

Typical output is a solid 4.9W into a 50 ohm load with the model 210 supply, and about 4.6W on freshly charged gel-cell. The drive can be dialed down to a few milliwatts - and stays right where it's set.



The AGC is traditional Ten-Tec - fast attack and slow decay. After some cockpit time you learn how to tame the AGC with the RF gain. I have never gotten around to doing the simple capacitor mod that tailors the circuit for CW and really should do that. I suspect the blocking dynamic range fares badly on paper (and on the air) compared to contemporary designs. With that in mind I really don't need to know what it is.

Pointer traverse near the bottom-end of the slide rule dial could have been designed a little better but that is another a live-with-it situation. After using the rig for so many years, adjusting tuning dial settings between regularly used bands comes easily. I suppose a good alignment would improve that situation too.

The dial cord mechanism is still in good condition. Like many grizzled Ten-Tec owners, I park the pointer on the left side of the slide rule dial when finished operating or for storage. There is no pronounced slippage and I attribute that in part to rosin dust transferred occasionally from a fiddle bow. Cycling the VFO from stop-to-stop before an operating session is routine procedure. From what I can tell there is very little mechanically induced drift, with the exception of 10M. The design is stable enough for what I have in mind for it most of the time - ragchewing on 20M or 40M.

While it is one more thing to do when changing bands, I like the manual resonate control. It is possible to peak the receiver right on the operating frequency. I believe this feature is helpful when searching out the weak ones, especially DX and milliwatters, but that's only my opinion.

WWV can be received on 15 Mhz, as well as many other shortwave signals after some twiddling of the resonate knob and the bandswitch. That offers a weak opportunity for alternative entertainment when the ham bands are in poor shape. Unfortunately, like many older Ten-Tec designs the 509 picks up television sweep tubes better than many competitors of its era.

The model 509 includes Ten-Tec's highly respected full break-in keying. The sidetone pitch is fixed and the volume independent of the audio controls. My rig's audio output is hard on the ears during a long operating session. In compensation, there is plenty of volume available from the internal speaker. It fires upwards, which is great when you have a reflecting wall/ceiling nearby. Audio is also emitted through the sidetone access hole in the bottom of the rig. The tip-up legs allow it to be focused right at the operator which can be helpful in portable locations. A decorative plastic strip located on the top of the rig keeps the standard accessories from sliding off.

I have no idea how much current the 509 consumes (guessing at 200-250 mA with the panel lights off) but the rig does very well on a 4 amp hour

gel-cell. At only 1 or 2 watts output it's good for a very long day afield. All the accessory boxes and interconnecting cables make portable operation a serious exercise in logistics. The rig itself weighs a surprising hefty six pounds. That's definitely in the "car trunk" portable category.

So if you find one of these old Ten-Tec warhorses in good condition at a decent price, I'm suggesting it's still worth serious consideration. A fly-before-buy approach is in order given the hours many of these rigs have spent on the air, as well as the normal aging process of some components.

Little warts notwithstanding, a 509 station with a few accessories is hard to beat for \$175-225 or so, depending on condition. If an equivalent commercial CW/SSB rig was shoe-horned into a little bitty box (and available today), it would undoubtedly be considered quite the bargain at that price.

I suspect a lot of model 509 transceivers are tucked away in a closet because the owners simply don't want to part with them. Not only for sentimental reasons but because they are still viewed as pretty good gear by some folks. At the same time they remain fun-to-operate radios. Ten-Tec continues to support/service the rig which is significant given the number of years it has been out of production. I've read in several unofficial places that over 8,000 model 509's were produced and that does seem like a lot of radios.

If you are looking for a 509, I hope you find a nice one too. If you can't come up with the matching 208 audio filter then try the inexpensive and readily available MFJ CWF-2 filter (flea market item). It is an excellent substitute (when inserted in the low-level audio stages) and offers an additional section of sharp filtering.

If you come across the matching calibrator make sure it is a model 206-A which provides pulsed outputs at 25 kHz and 100 kHz. The insertion loss in the earlier 206 design is obvious. I have never owned/used the companion 405 amp. I expect to find a good one someday as well as a matching microphone. Perhaps part of the mystique associated with these old timers is chasing down both the rig and the accessories.

Good luck!

de Dave, NF0R      nf0r@slacc.com

-----  
Date: Tue, 17 Sep 2002 20:25:08 -0400  
From: john <johnmb@nc.rr.com>  
To: <w6toy@erols.com>, qrp-1@lehigh.edu  
Subject: [135324] re: [135283] A thought  
Message-ID: <3.0.3.32.20020917202508.02441b9c@pop-server.nc.rr.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Bruce sez: "There seem to be a whole lot of you who actually have and use QRO equipment, including the TS830. Now, are you all closet QRPers or closet QROers?"

Well, if you were to look at the Collins 550A1 AM Broadcast rig, or the Globe Kings you'd conclude I'm a QRO'er. If you look at the Smite, RockMite or HW8's, you'd conclude a QRP'er.

I like SS454's and VW's....

John wb5oau

-----  
Date: Tue, 17 Sep 2002 19:47:09 -0500  
From: Karl Kanalz <kkanalz@gcecispc.com>  
To: "'n5ib@juno.com'" <n5ib@juno.com>,  
Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [135325] RE:Weights For the "E-Z Hang"  
Message-ID: <01C25E83.0A357F00@KKANALZ>

If you need some heavy lead weights for launching your line over a tree, just go to your nearest tire shop (Sears, Discount Tires, NTB, etc.) and

ask them for discarded tire-balancing weights!

In fact, you'll often find them just lying on the ground outside the shop(s), so you can put a few in your pocket and saunter off!

Karl K - W8TIF  
McKinney, Texas

-----Original Message-----

From: n5ib@juno.com [SMTP:n5ib@juno.com]  
Sent: Tuesday, September 17, 2002 7:10 PM  
To: Low Power Amateur Radio Discussion  
Subject: Re: Used EZ-Hang or Equivalent Device

On Tue, 17 Sep 2002 15:07:28 -0400 Bruce Muscolino <w6toy@erols.com> writes:

>An EZ Hang equivalent can be easily made..... I have kept the slingshot and reel separate, >but that was a personal decision!  
I second Bruce's comment. I've not been a big fan of the EZ-Hang design, with the reel just under the slingshot, because if the line should snag it's gonna pop that sinker right back at you.  
I tie-wrapped my reel to a tent peg and stick it in the ground a few feet to one side of me. If there's a snag, I'm probably out of the line of fire.  
BTW it's getting hard to find the larger sinkers at area WalMarts. Mostly 1 oz and under these days.

72

Jim N5IB

-----  
Date: Tue, 17 Sep 2002 20:47:53 -0400  
From: "W2WU" <w2wurjj@verizon.net>  
To: <kkanalz@gcecisp.com>,  
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [135326] VFO CONSTRUCTION/MATERIALS?  
Message-ID: <001a01c25ead\$1e2e5020\$71c2fea9@w2wu>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Great thread.

Did Collins use aluminum as a (1) cost factor, (2) durability, (3) permeability? How does aluminum compare to (a) mu metal, (b) machined Al, or (c) Silver, (d) gold or (e) Cu plated "cans"?

Which method is the best & which provides the best mechanical & temperature coefficients? Would it be practicable to design a vfo in a milled metal, as in helical resonators? Can one attain stability exceeding a TCXO or PLL?

How stable would a standard tin coated can be? 73 Ron W2WU

----- Original Message -----

From: Karl Kanalz <kkanalz@gcecispc.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: 17 September, 2002 20:06

Subject: RE: Magnetic shielding for vfo's

Stuart Rohre [SMTP:rohre@arlut.utexas.edu]

<SNIP>

-----  
Date: Tue, 17 Sep 2002 21:10:51 +0000

From: Larry Cahoon <lejek@erols.com>

To: w6toy@erols.com,

"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [135327] Re: A thought

Message-ID: <5.1.0.14.0.20020917204602.029d72d8@pop.erols.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

At 03:10 PM 9/17/2002 -0400, Bruce Muscolino wrote:

>TS830. Now, are you all closet QRPers or closet QROers?

I like to think of it as being a realist. The main goal is to have some fun doing ham radio. I do QRP because it is fun. Most of my goals - which I seem to take forever to reach as the fun gets in the way - are QRP related.

I'm working the US Counties for the second time around. I did them once QRO, and QRP will not get in the way of finishing the job a second time. I started working them QRP six months after I started working them for the second time and as of today I still need 11 to finish them QRO the second time and 98 to finish them QRP.

At the same time when I run counties it is usually do it QRO. I do that because the QSO is really for the other guy. He is looking to work someone in the county. Since that is the main goal and I want him to get the county I go QRO. When I can I will work the other mobiles from the mobile QRP. I also, just for the fun of it try to make at least one QRP QSO from each county. Every now and then I forget to turn the power back up when I

run a county and do it QRP - I've worked Australia at least twice from the mobile when I've done that.

73 de Larry.....WD3P in MD  
<http://www.wd3p.net/>

-----  
Date: Tue, 17 Sep 2002 21:11:31 -0400  
From: "David B. Sarraf" <david.sarraf@paonline.com>  
To: Chris Cartwright <ccart@phideaux.com>  
Cc: QRPL List <qrp-l@lehigh.edu>  
Subject: [135328] Fans and anemometers - was Whooda thunk it...  
Message-ID: <3D87D2C3.6B0CE649@paonline.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Chris:

You have a two-phase fan. The electronics energizes the winding pairs (north/south, east/west) alternately and thereby steps the north pole around the fan hub. The poles of the circular magnet on the rotor chase the winding poles and makes the fan blades spin.

Think of the fan as an oscillator (mandatory QRP content...) When the fan is powered up the blades twitch a little. The hall sensor sees that motion and starts the transistors switching. The fan takes off running.

The number of poles and the complexity of the circuitry does vary greatly. Some fans, most notably EBM-Papst, use five poles. They are packed with parts, including many surface mount components. They are also covered with a conformal coating which is not worth the effort it takes to remove if you are just salvaging parts. I have seen other fans, especially those built for a price point, which have only two transistors, two resistors, and a hall element. There is a manufacturer which makes a single IC that has all of the necessary components, including the hall element.

In some fans the hall sensor is also used as either a speed sensor (tachometer) or as a fan failed alarm. These have a third lead which is most often an open-collector NPN transistor. Tachometer-output fans will, as one might expect, output pulses, usually two but sometimes four per revolution. Fan failed alarms hold the output high until the blade rotation falls off. The switching action and the recovery from the alarm state are delayed, sometimes up to several seconds, to preven



next. It is far easier to lay the reflective tape - it can easily be cut from one wide strip - and it takes only a simple code conversion or lookup to get the actual wind direction.

This would also be a practical way to make homebrew circular encoders when you don't have artwork and have to lay out an encoder by hand. Just draw several concentric circles with a compass and fill in the stripes with a sharpie marker. It would require a code change in the CPU; perhaps a jumper to select normal or excess gray encoder layouts? Far easier than filling in the tiny alternating stripes on the inner wheel of a standard encoder.

Dave Sarraf

-----  
Date: Tue, 17 Sep 2002 21:11:13 -0400  
From: David Hinerman <WD8CIV@worldnet.att.net>  
To: qrp-1@lehigh.edu  
Subject: [135329] Re: 4053 Mixer on harmonics?  
Message-ID: <5.1.0.14.1.20020917210429.00b1cbf8@postoffice.worldnet.att.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 05:18 PM 9/17/2002 -0700, you wrote:

>I've seen some references to using the 4066/4053 on harmonics of the LO. I  
>have a simulation that works OK with a 7.100MHz input and a 7MHz LO (the  
>difference signal at 100kHz is the right amplitude). If I halve the LO  
>frequency the component at 100kHz is pretty small. What am I missing?

Ian,

I don't have your circuit model, but I suspect that when you halve the LO frequency one cycle is worth almost two cycles of input. Put another way, if one of your mixer switches is turned on for 1/2 cycle of the LO (which is how I've seen most such mixers operate) it'll pass almost a whole cycle of the input signal. If you follow the mixer with a low-pass filter, that whole cycle averages out to almost nothing.

Dave

Dave

-----  
"You can fool some of the people all of the time. That's enough to make a



living." - Lance Burton

-----  
Dave Hinerman  
WD8CIV@att.net

-----  
Date: Tue, 17 Sep 2002 21:00:52 -0400  
From: David Hinerman <WD8CIV@worldnet.att.net>  
To: qrp-1@lehigh.edu  
Subject: [135330] Re: Used EZ-Hang or Equivalent Device  
Message-ID: <5.1.0.14.1.20020917205839.00b24e68@postoffice.worldnet.att.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

>I tie-wrapped my reel to a tent peg and stick it in the ground a few feet  
>to one side of me. If there's a snag, I'm probably out of the line of  
>fire. BTW it's getting hard to find the larger sinkers at area WalMarts.  
>Mostly 1 oz and under these days.

Something I've been meaning to try, but my local Wally World doesn't carry  
slingshots (if you can believe it). I've wondered if a golf ball with a  
small screw eye would be suitable.

Anybody tried it?

Dave

-----  
"You can fool some of the people all of the time. That's enough to make a  
living." - Lance Burton

-----  
Dave Hinerman  
WD8CIV@att.net

-----  
Date: Tue, 17 Sep 2002 22:29:12 -0400  
From: Alex <kr1st@amsat.org>  
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [135331] Re: A thought  
Message-ID: <3D87E4F8.3D438943@amsat.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

> Bruce Muscolino wrote:  
> There seem to be a  
> whole lot of you who actually have and use QRO equipment,

Actually, I knew from the beginning I was going QRP. However, I choose a QRO rig, the IC-718, because of its excellent features of which not in the least is the capability to turn the power down to 0.8 Watt. My first contact was with 35 Watts (the only contact I ever made with more than 5 Watts), which I still regret.

73,  
--Alex (KR1ST)

-----  
Date: Tue, 17 Sep 2002 21:43:29 -0400  
From: JD Delancy <W1JD@drix.net>  
To: W2BJ <w2bj@minsky.info>  
Cc: qrp-1@lehigh.edu  
Subject: [135332] OT:IRLP&EchoLink  
Message-ID: <3D87DA41.69BDC824@drix.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7BIT

Barry

W2BJ wrote:  
> On Sun, 15 September 2002, JD Delancy wrote:

> I have not tried it as yet, but I have a ham friend who has. I hear great things about it. Let's hear more.

I'm not caught up with the email for the last couple of days, so maybe this is a repeat.

Echolink is written and updated by K1RFD in CT. It uses voice-over-IP (VoIP) technology which is coming up rapidly in the internet world. Some say that VoIP will be replacing Ma Bell completely in a few years. Get the Software, documentation and see the FAQ's at [www.echolink.org](http://www.echolink.org) EchoLink will run on an moden internet connection of 45-56K but the better the connection, the better it sounds. I have cable modem but a lot of folks use DSL with excellent results.

All you need is a computer that has Win98, NT , Win2K for an O/S, a sound card that has speakers and a mike connected in the right places. Fire up the EchoLink, fill in the blanks, and wait for it to validated your callsign. That's all. You then

find a link you want to visit, double click on it and go for it. You can connect to just about any place on the globe with it for a QSO. As I write this, HL5BIM in Pusan Korea is available. When was the last time you heard Korea? While chasing DX using EchoLink is not like doing it on HF, it still can be fun to have the QSO.

One of the things I see EchoLink offering is the ability for the hams who become "shut ins" for whatever reason, can no longer have a station, tower and antenna at their disposal. One fellow I know of in South Texas is back talking to his friends around STX via echolink. The same principle would be applied to those who have covents or CCR's.

Another use would be to link multiple repeaters via the conference ability of echolink or one of the conference servers. That could be really helpful and beneficial during something like a Tornado. Anyways, you get the picture, the uses are many, I dont think they've all been thought of.

If you wanted to be a linking station yourself, WB2REM and G4CDY market a board that interfaces the computer with a radio. It can be bought in kit form, partially assembled or fully assembled. Full assembled costs \$55. Get the details at: [www.ilinkboards.com/](http://www.ilinkboards.com/)

I can't speak for ILRP other than its strictly LINUX, and repeater-to-repeater linking with lots of security involved (Kerberos and the like).

Echolink and ILRP is not everyone's brews. If it floats the canoe, good and if it don't fine too. Hope that helps to answer some of your quesitons.

jd

-----  
Date: Tue, 17 Sep 2002 21:45:57 -0400  
From: Paul Valko <w8kc@comcast.net>  
To: david.gauding@bbs.galilei.com,  
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135333] Announcement: W8KC "Golden Post" Award #1  
Message-ID: <002e01c25eb5\$22ae3950\$6401a8c0@p4main>  
MIME-version: 1.0  
Content-type: text/plain; charset=iso-8859-1  
Content-transfer-encoding: 7BIT

Friends,

Many years ago, QRP-L founder Chuck Adams gave out an award to people who posted high quality messages to the QRP-L. Chuck mailed out a nice 2SC799 transistor along with his compliments. There was no arguing, no votes, just a simple note from Chuck and a small envelope with a transistor a few days later in the mail.

It took quite an effort to get one and yes I did write something that touched Chuck in some unknown way. I can tell you that the 2SC799 he sent me is cherished for what it represents.

I do not know if Chuck has a spare transistor in the junk box but if he does, he could mail one out because I am awarding W8KC Golden Post Award #1 to David Gauding NFOUR for his submission titled, "My Old Argonaut 509 (very long)."

Dave combines exceptional story telling along with compelling technical facts and a human warmth long missing from a typical QRP-L message.

Breaking with accepted QRP-L rules in this case, his post follows just below this note, for the benefit of those who may have deleted it the first time. I invite you all to read his message again and allow the words to sink in. If you agree with my assessment, send Dave an email thanking him.

Thank YOU Dave, for restoring my faith in QRP-L. Remember that on any given day, between all the flames and off-topic discussions there may lie a rare gem of an email.

73! =paul= W8KC

Collector of Ten\*Tecs and Other Fine Plastics.

Visit the Virtual Ten\*Tec Museum at <http://mywebpages.comcast.net/w8kc>

\*\*\*\*\*

----- Original Message -----

From: "David Gauding" <david.gauding@bbs.galilei.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Tuesday, September 17, 2002 8:33 PM

Subject: My Old Argonaut 509 (very long)

> Good evening,

>

> For the last week, I've been using my old Ten-Tec Argonaut 509 transceiver  
> on CW and SSB - anywhere from milliwatts to full output. It's a nostalgia  
> trip of sorts - strictly for relaxation and enjoyment. Several old keys,  
> bugs and cans are also finding they too are not being ignored.

>

> After signing off one night, I sat in the shack for a few more minutes and

> decided life wasn't too bad when running this older solid-state gear. I  
> made a preliminary outline the next day, and then some notes, and thought  
> it might be interesting to share some of those observations here on QRP-L.  
> Your personal experiences will surely vary from mine but there could be a  
> few parallels along the way.  
>  
> Ten-Tec advises that model 509 serial numbered 3336 was built in 1977  
which  
> puts it in the quarter-century class. I've owned this rig for nine years  
> after searching a long time for a first-class example. KC0PP found this  
one  
> at an out-of-state hamfest. He quickly paid the asking price of \$75 and  
> offered the rig to me the next day for the same price. Keith Arns already  
> has a complete and pristine 509 station so it evolved into a special  
> consideration between two old friends. When I no longer want the rig, I  
> will sell it back to him for \$75.  
>  
> Over time, I had accumulated the matching Ten-Tec model 210 power supply  
> and a FR-4 audio filter. The latter was introduced in 1972 for the earlier  
> Argo 505 and Triton I & II transceivers. Actually, the old passive device  
> is a bit on the primitive side. I position it under the power supply  
> (identical cabinets) use the circuitry to bring the headphone audio output  
> to the front - a little more gracefully.  
>  
> Then my old friend AG5P offered a matching 206-A xtal calibrator as well  
as  
> an always elusive 208 audio bandpass filter, both from his collection of  
> Ten-Tec gear. About the same time, a nicely modified AC-5 tuner found its  
> way into the shack. A previous owner added an insulated RCA jack and  
> interconnections so the tuner will handle coax in addition to balanced  
line  
> - both of which it does surprisingly well.  
>  
> Anyway, I put my Corsair I and Argonaut 515 aside for awhile and assembled  
  
> the complete Argo 509 station on the operating desk. This produced a warm  
&  
> fuzzy feeling immediately! There is something about that combination of  
> Ten-Tec cream paint, black & silver controls and woodgrain end panels that  
> just seems right. Real ham radio if you will, and even more so when there  
> is a wall of the stuff sitting right there. You have to look pretty hard  
to  
> find a scratch on the rig or the accessories - and there aren't many.  
>  
> Long after it was designed/built the 509 continues to chug right along.  
One  
> time, I heard them referred to as the "57 Chevy of QRP" and that is  
> probably a fair assessment. This superhet's .5 microvolt receiver

> sensitivity is more than adequate for general operating and then some.  
>  
> The accessory bandpass filtering is pretty good. Sometimes I wish for the  
> third (80hz) position provided by the outboard audio filter of the model  
> 515 (and its notch filter), but that's not a must-have thing. The 2.4 KHz  
> four-pole IF filter is prone to blow-by on strong signals which is  
annoying  
> in contest situations and pile-ups. For those pursuits, I change to a rig  
> with better receiver.  
>  
> There are no WARC bands in any early Argonaut, but I rarely get on them  
> except to check out new antennas, or hide from QRO contests. The 10M  
> bandspread is much too cramped for convenient tuning (corrected in the  
515)  
> but I haven't operated on that band in recent years.  
>  
> The RIT feature is classic Ten-Tec. When the circuit is switched-out of  
> line the tuning rate reverts to very fine pitch due to residual voltage.  
> The persistent bandswitch problems of the model 505 were solved when the  
> 509 was designed. And, the power inlet is fused which corrected another  
> omission from the earliest Argo in the series. The finals seem to be  
immune  
> to damage from all but the most vicious operators.  
>  
> The internal and very sensitive SWR bridge (including s-meter) is a major  
> plus, especially for portable operations since there is one less external  
> accessory to worry about. The 509 qualifies as a "calm operator" rig.  
There  
> are enough controls to get the job done and room between the knobs and  
> switches to manipulate them. Some features like the headphone and  
> microphone jacks are in the wrong place (rear panel) but you learn to  
> adjust for those design decisions.  
>  
> Typical output is a solid 4.9W into a 50 ohm load with the model 210  
> supply, and about 4.6W on freshly charged gel-cell. The drive can be  
dialed  
> down to a few milliwatts - and stays right where it's set.  
>  
> The AGC is traditional Ten-Tec - fast attack and slow decay. After some  
> cockpit time you learn how to tame the AGC with the RF gain. I have never  
> gotten around to doing the simple capacitor mod that tailors the circuit  
> for CW and really should do that. I suspect the blocking dynamic range  
> fares badly on paper (and on the air) compared to contemporary designs.  
> With that in mind I really don't need to know what it is.  
>  
> Pointer traverse near the bottom-end of the slide rule dial could have  
been  
> designed a little better but that is another a live-with-it situation.

> After using the rig for so many years, adjusting tuning dial settings  
> between regularly used bands comes easily. I suppose a good alignment  
would  
> improve that situation too.  
>  
> The dial cord mechanism is still in good condition. Like many grizzled  
> Ten-Tec owners, I park the pointer on the left side of the slide rule dial  
> when finished operating or for storage. There is no pronounced slippage  
and  
> I attribute that in part to rosin dust transferred occasionally from a  
> fiddle bow. Cycling the VFO from stop-to-stop before an operating session  
> is routine procedure. From what I can tell there is very little  
> mechanically induced drift, with the exception of 10M. The design is  
stable  
> enough for what I have in mind for it most of the time - ragchewing on 20M  
> or 40M.  
>  
> While it is one more thing to do when changing bands, I like the manual  
> resonate control. It is possible to peak the receiver right on the  
> operating frequency. I believe this feature is helpful when searching out  
> the weak ones, especially DX and milliwatters, but that's only my opinion.  
>  
> WWV can be received on 15 Mhz, as well as many other shortwave signals  
> after some twiddling of the resonate knob and the bandswitch. That offers  
a  
> weak opportunity for alternative entertainment when the ham bands are in  
> poor shape. Unfortunately, like many older Ten-Tec designs the 509 picks  
up  
> television sweep tubes better than many competitors of its era.  
>  
> The model 509 includes Ten-Tec's highly respected full break-in keying.  
The  
> sidetone pitch is fixed and the volume independent of the audio controls.  
> My rig's audio output is hard on the ears during a long operating session.  
> In compensation, there is plenty of volume available from the internal  
> speaker. It fires upwards, which is great when you have a reflecting  
> wall/ceiling nearby. Audio is also emitted through the sidetone access  
hole  
> in the bottom of the rig. The tip-up legs allow it to be focused right at  
> the operator which can be helpful in portable locations. A decorative  
> plastic strip located on the top of the rig keeps the standard accessories  
> from sliding off.  
>  
> I have no idea how much current the 509 consumes (guessing at 200-250 mA  
> with the panel lights off) but the rig does very well on a 4 amp hour  
> gel-cell. At only 1 or 2 watts output it's good for a very long day  
afield.  
> All the accessory boxes and interconnecting cables make portable operation

> a serious exercise in logistics. The rig itself weighs a surprising hefty  
> six pounds. That's definitely in the "car trunk" portable category.  
>  
> So if you find one of these old Ten-Tec warhorses in good condition at a  
> decent price, I'm suggesting it's still worth serious consideration. A  
> fly-before-buy approach is in order given the hours many of these rigs  
have  
> spent on the air, as well as the normal aging process of some components.  
>  
> Little warts notwithstanding, a 509 station with a few accessories is hard  
> to beat for \$175-225 or so, depending on condition. If an equivalent  
> commercial CW/SSB rig was shoe-horned into a little bitty box (and  
> available today), it would undoubtedly be considered quite the bargain at  
> that price.  
>  
> I suspect a lot of model 509 transceivers are tucked away in a closet  
> because the owners simply don't want to part with them. Not only for  
> sentimental reasons but because they are still viewed as pretty good gear  
> by some folks. At the same time they remain fun-to-operate radios. Ten-Tec  
> continues to support/service the rig which is significant given the number  
> of years it has been out of production. I've read in several unofficial  
> places that over 8,000 model 509's were produced and that does seem like a  
> lot of radios.  
>  
> If you are looking for a 509, I hope you find a nice one too. If you can't  
> come up with the matching 208 audio filter then try the inexpensive and  
> readily available MFJ CWF-2 filter (flea market item). It is an excellent  
> substitute (when inserted in the low-level audio stages) and offers an  
> additional section of sharp filtering.  
>  
> If you come across the matching calibrator make sure it is a model 206-A  
> which provides pulsed outputs at 25 kHz and 100 kHz. The insertion loss in  
> the earlier 206 design is obvious. I have never owned/used the companion  
> 405 amp. I expect to find a good one someday as well as a matching  
> microphone. Perhaps part of the mystique associated with these old timers  
> is chasing down both the rig and the accessories.  
>  
> Good luck!  
>  
>  
>  
> de Dave, NF0R      nf0r@slacc.com  
>  
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Date: Tue, 17 Sep 2002 21:47:55 -0400  
From: john <john@wagner-usa.net>  
To: unlisted-recipients;; (no To-header on input)  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135334] Re: Used EZ-Hang or Equivalent Device  
Message-ID: <3D87DB4B.1080908@wagner-usa.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Transfer-Encoding: 7bit

In fact I have... didn't do a thing for my slice or putting.

FWIW, I use a hockey puck as my weight for hanging antenners using 25lb fishing line and the armstrong method of launching. Works great up to about 65ft high.

73,

John, N1Q0

David Hinerman wrote:

>  
>> I tie-wrapped my reel to a tent peg and stick it in the ground a few feet  
>> to one side of me. If there's a snag, I'm probably out of the line of  
>> fire. BTW it's getting hard to find the larger sinkers at area WalMarts.  
>> Mostly 1 oz and under these days.

>  
>  
> Something I've been meaning to try, but my local Wally World doesn't  
> carry slingshots (if you can believe it). I've wondered if a golf ball  
> with a small screw eye would be suitable.

>  
> Anybody tried it?  
>

> Dave  
>  
> -----  
> "You can fool some of the people all of the time. That's enough to make  
> a living." - Lance Burton  
> -----  
> Dave Hinerman  
> WD8CIV@att.net  
>  
>  
>

--  
John Wagner - john@wagner-usa.net  
Web page: <http://www.neknetwork.com>

-----  
Date: Tue, 17 Sep 2002 21:49:36 -0400  
From: Bill Coleman <aa4lr@arrl.net>  
To: <rattray@gpfn.sk.ca>,  
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [135335] Re: SLV vertical...  
Message-ID: <20020918015112.DJXF23978.imf02bis.bellsouth.net@[192.168.0.20]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

Sorry to address such an old posting, but:

On 8/29/02 22:48, Bruce Rattray at rattray@gpfn.sk.ca wrote:

>...ok, why does having more than 1 radial cut to a 1/4 wavelength or say  
>40 mtrs improve the transmitting and receiving performance of the  
>antenna?...

The answer here sorta depends on the height of the vertical in wavelengths. If the vertical base is 1/2 wavelength or higher, then 1 radial will offer pretty good performance. But it really isn't acting as a vertical. Instead, it is a bent vertical dipole.

When you add a second radial, the antenna starts acting more like a 1/4 wave vertical. At heights of 1/2 wavelength or higher, once you have 3 or 4 radials, the performance becomes indistinguishable from a solid 1/4 wave radius sheet. This type of antenna is commonly called a "ground plane", because the 3 or 4 radials form an elevated "ground" for the 1/4 wave vertical to work against.

At heights closer to the ground, however, the ground effects kick in, and soon become to dominate. The vertical portion tends to generate currents in the ground, and since the ground isn't a great conductor, much of this current produces heat.

We can reduce these ground losses by reducing the ground currents. One way is to use a set of radials. As we add radials, the amount of current in each radial becomes less and less, and the amount of current in the ground is less as well.

This effect is often easily measured by a reduced feedpoint impedance as radials are added -- this loss in impedance is directly related to the reduced ground losses.

>...is it because the "perfect" arrangement would be a 1/4 wavelength  
>circle of metal underneath the vertical and thus when I go from 1 radial  
>to 3,4,5, radials, I improve the performance of the antenna as I start  
>to "fill in" the circle?...

Yes. As you fill in, the benefit from each radial diminishes. At some point, a set of radials becomes pretty much indistinguishable from a solid sheet. For 1/4 wave radials, it is about 25-60 radials.

Bill Coleman, AA4LR, PP-ASEL                      Mail: aa4lr@arrl.net  
Quote: "Not within a thousand years will man ever fly!"  
      -- Wilbur Wright, 1901

-----  
Date: Tue, 17 Sep 2002 21:50:00 -0400  
From: Bill Coleman <aa4lr@arrl.net>  
To: <w6toy@erols.com>,  
      "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135336] Re: TS-830S radio  
Message-ID: <20020918015136.DKE023978.imf02bis.bellsouth.net@[192.168.0.20]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

On 9/16/02 11:55, Bruce Muscolino at w6toy@erols.com wrote:

>The TS830(S) does not use the 12BY7 driver tube. It is entirely solid  
>state except for the 6146 finals. It also has about the quietest  
>receiver I have ever used, fully the equal of my TS850S!

>From what I have been given to understand, based on some tests done by W8JI, the TS830S has one of the best receivers of its era, surpassed only by the Drake R4-series with the Shelby [?] mods.

Doesn't compare to the modern FT-1000MP or the K2, but not a bad find.

Bill Coleman, AA4LR, PP-ASEL                      Mail: aa4lr@arrl.net  
Quote: "Not within a thousand years will man ever fly!"  
      -- Wilbur Wright, 1901

-----  
Date: Tue, 17 Sep 2002 21:49:57 -0400  
From: Bill Coleman <aa4lr@arrl.net>  
To: <rohre@arlut.utexas.edu>,  
      "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135337] Re: The center fed 88 foot dipole (or doublet)  
Message-ID: <20020918015134.DKDY23978.imf02bis.bellsouth.net@[192.168.0.20]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

On 8/13/02 19:35, Stuart Rohre at rohre@arlut.utexas.edu wrote:

>John, maybe not magic, but very handy.

>

>L. B. Cebik, noted Antenna modeler and writer, (<cebik.com>, must read  
>antenna site), found that if you wanted an all around antenna that could be  
>matched on all bands, and did want to maintain the dipole like broadside  
>radiation pattern maxima, the 88 foot length would do this, and not have  
>notches in the pattern found with some non half wave lengths of dipoles.

Uh, Sorry for the late reply, but this statement is not correct.

If you go look at Dr Cebik's paper, you'll see that his design goals were NOT to create an "all band" antenna. Indeed, the 88 foot design comes from a desire to have an effective BACKUP antenna for 80-20m.

For bands above 20m, the 88 foot doublet will exhibit exactly the nulls in the pattern that Dr. Cebik was trying to avoid.

Further, the broadside pattern only maintained if the doublet is mounted at sufficient height above ground (in wavelengths). For the 88 foot design, Dr. Cebik modeled at 100 and 70 feet (1/4 wavelength on 80m). At heights below 1/4 wavelength, the design is more omnidirectional.

>The 88 foot doublet satisfies several of my concepts of a "good" antenna.  
>It works equally well in most directions.

This depends on how high it is, and note that the height varies depending on the band (since the height in wavelengths is what matters)

>It is a balanced antenna and easily fed with balanced lines.

Any doublet has this property. It doesn't have to be 88 feet in length.

>It does not depend on possibly lossy ground to complete the antenna, it is  
>self sufficient as a balanced antenna. (It can work with good ground in the  
>Fresnel Zone for reflection gain, but that is another topic). The point it  
>does not need good earth right at the antenna to function, or a ground  
>radials.

True of any doublet.

>The take off angles give many options in the stations you can work at  
>various ranges.

True of any doublet at a given height in wavelengths.

>The feeder can be adjusted in length to improve the ease of matching to  
>cover any band in HF range.

True of any doublet.

>Simple materials can be used in its construction, (not limited to this  
>antenna).  
>Conduit wire, empty plastic bottles, and wire nuts, (twist on wire  
>fasteners) make quick work of making a rolled up version of this antenna a  
>radiator if you have at least one support.

True of any doublet.

>Not magic perhaps, but great pleasure!

Seems like any doublet would satisfy your requirements.

Bill Coleman, AA4LR, PP-ASEL                      Mail: aa4lr@arrl.net  
Quote: "Not within a thousand years will man ever fly!"  
      -- Wilbur Wright, 1901

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Date: Tue, 17 Sep 2002 22:11:19 -0400

From: Bill Coleman <aa4lr@arrl.net>  
To: <k5di@zianet.com>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135338] Re: Wire and ferrite baluns  
Message-ID: <20020918021254.GPKA25095.imf05bis.bellsouth.net@[192.168.0.20]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

On 8/5/02 8:21, Karl F. Larsen at k5di@zianet.com wrote:

>It appears your MFJ-989C is quite a bit bigger than my MFJ-989  
>and has the coax wound balun while mine has the much smaller wire toroid  
>type. It is easy to change from 4:1 to 1:1 if desired.

Again, this is incorrect. You cannot just re-wire a 4:1 voltage balun into a 1:1 current balun. The voltage balun has a powdered iron core. The current balun will use ferrite. The two materials are vastly different.

Bill Coleman, AA4LR, PP-ASEL                      Mail: aa4lr@arrl.net  
Quote: "Not within a thousand years will man ever fly!"  
-- Wilbur Wright, 1901

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Date: Tue, 17 Sep 2002 22:12:06 -0400  
From: Bill Coleman <aa4lr@arrl.net>  
To: <w5yr@att.net>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135339] Re: Wire and ferrite baluns  
Message-ID: <20020918021146.FZ0D25081.imf22bis.bellsouth.net@[192.168.0.20]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

On 8/5/02 12:46, George, W5YR at w5yr@att.net wrote:

>I surmise that all MFJ did when current baluns came into "style" was to  
>remove a couple of wires from their tuners and change what were 4:1 voltage  
>baluns into 1:1 current baluns. The actual windings on the toroids is the  
>same in either case.

Yeah! But the MATERIALS of a 4:1 voltage balun and a 1:1 current balun are vastly different!

Bill Coleman, AA4LR, PP-ASEL                      Mail: aa4lr@arrl.net

Quote: "Not within a thousand years will man ever fly!"  
-- Wilbur Wright, 1901

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Date: Tue, 17 Sep 2002 22:11:09 -0400  
From: Bill Coleman <aa4lr@arrl.net>  
To: <k5di@zianet.com>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135340] Re: Wire and ferrite baluns  
Message-ID: <20020918021244.GPFS25095.imf05bis.bellsouth.net@[192.168.0.20]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

On 8/3/02 12:41, Karl F. Larsen at k5di@zianet.com wrote:

>  
> There was a long and heated discussion on balun design and I  
> have no desire to re-load that talk. But rather to talk about the LDG  
> Electronics BA-1 and the MFJ balun in nearly all their antenna tuners.

I know this discussion is a month old, but I can't let any talk of baluns go by unanswered, particularly when the information is wrong.

> It was argued that the simple 1:1 balun is best when you want to  
> keep the balanced side to stay balanced and several other claimed  
> advantages I never fully understood. The difference between a 4:1 and 1:1  
> balun of this type is simply how you hook up the 4 wires that come out  
> of the windings which are usually 10-12 turns of 2 wires side by side  
> that covers 80% of the toroid. The toroid is made of a ferrite material.

Karl is mistaken here. A 4:1 voltage balun may appear to have similarities to a 1:1 current (Guanella) balun. At first glance, it would appear they are the same, with just the windings wired differently.

However, such is not the case. A 4:1 voltage balun requires a relatively high-Q core, and are typically powdered iron. A 1:1 current balun (of the Guanella variety) uses a low-Q core, made of ferrite. The permeability of ferrite is around 100 to 1000 times higher than powdered iron.

So, you cannot just take a 4:1 voltage balun and re-wire it into a current balun. It won't work. It won't have nearly enough choking impedance to do the job.

The key advantage of the current balun is they result in much better current balance than voltage baluns. Which is what baluns are all about

anyway.

Bill Coleman, AA4LR, PP-ASEL                      Mail: aa4lr@arrl.net  
Quote: "Not within a thousand years will man ever fly!"  
      -- Wilbur Wright, 1901

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Date: Tue, 17 Sep 2002 20:47:28 -0500  
From: Dave Redfearn <n4elm@attbi.com>  
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [135341] FS or Swap: JPS NRF-7 DSP General Purpose Noise Remover and Filter  
Message-ID: <3D87DB30.1421192@attbi.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

For Sale:

JPS NRF-7 DSP  
General Purpose Noise Remover and Filter

Description:

The NRF-7 is an audio processor designed to enhance the quality of received voice, CW, and Data transmissions by providing exceptional bandpass, white noise reduction, and hetrodyne removal using Digital Signal Processing (DSP).

The filter modes are CW narrow, CW wide, SSB narrow, SSB wide, Notch filter, Peak Filter, Notch plus Peak, SSB wide filter plus Notch, SSB narrow filter plus Notch, and DATA filter.

The unit measures about 1.7" high x 6.5" wide x 5.1" deep.  
Operates on +11 to +16 Volts DC.

Condition:

There are minor wear marks and scratches on the top of the case. The front panel is clean. Overall the equipment is a 8 or 9 for cosmetics. Everything works normally. Comes with manual.

Asking \$75.00 OBO + shipping from TX.

OR swap for/towards a CW transceiver for 30 or 20 Meters



like a DSW-20, SST, etc...

73 - Dave

=====  
Dave Redfearn, ARS N4ELM, McKinney, TX  
Email: n4elm@NOJUNKhome.com (to reply, remove NOJUNK)  
QRL? de N4ELM/qrp

-----  
Date: Tue, 17 Sep 2002 19:25:02 -0700  
From: "Ian Wilson" <ianmwilson@earthlink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [135342] Re: 4053 Mixer on harmonics?  
Message-ID: <001001c25eba\$983a97e0\$0b02a8c0@trabucoserver>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I see the problem - I've modeled the switch as SPST but it's SPDT. Oh well...

--ian

----- Original Message -----  
From: "Ian Wilson" <ianmwilson@earthlink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Sent: Tuesday, September 17, 2002 5:18 PM  
Subject: 4053 Mixer on harmonics?

> I've seen some references to using the 4066/4053 on harmonics of the LO.  
I  
> have a simulation that works OK with a 7.100MHz input and a 7MHz LO (the  
> difference signal at 100kHz is the right amplitude). If I halve the LO  
> frequency the component at 100kHz is pretty small. What am I missing?  
>  
> de ian, k3imw/6  
>  
>  
>

-----

Date: Tue, 17 Sep 2002 22:26:59 -0400  
From: "W2WU" <w2wurjj@verizon.net>  
To: <kr1st@amsat.org>,  
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [135343] QRPvs.QRO  
Message-ID: <001601c25ebb\$092c7900\$71c2fea9@w2wu>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I was NCS for Army MARS & ran the net QRP. Few members could detect the difference between QRP & QRO (25W.) QRP IS THE ONLY WAY! 73, Ron W2WU  
<SNIP>

-----  
Date: Tue, 17 Sep 2002 19:32:54 -0700  
From: "Trevor Jacobs" <kg6cyn@earthlink.net>  
To: <johnmb@nc.rr.com>,  
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [135344] Re: [135283] A thought  
Message-ID: <004d01c25ebb\$b23af9e0\$13e4b3d1@tjnotebook>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hehehe...same here with the Johnson stuff, especially the Thunderbolt, Hi!  
Hey, not all modes are QRP friendly, AM being one of them. It's a very inefficient mode, but a fun one, and a mode that I enjoy. I run as much power as needed to get the job done on AM. I must admit though that I haven't run more than 5 watts CW in years.

And John, I love the V8 in my Blazer, but the little type 4 does a great job in my 914!

73's Trev KG6CYN  
<http://home.earthlink.net/~kg6cyn>  
<http://www.qsl.net/kg6cyn>

----- Original Message -----  
From: "john" <johnmb@nc.rr.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Sent: Tuesday, September 17, 2002 5:25 PM

Subject: re: [135283] A thought

> Bruce sez: "There seem to be a  
> whole lot of you who actually have and use QRO equipment, including the  
> TS830. Now, are you all closet QRPers or closet QROers?"  
>  
> Well, if you were to look at the Collins 550A1 AM Broadcast rig, or the  
> Globe Kings you'd conclude I'm a QRO'er. If you look at the Smite,  
RockMite  
> or HW8's, you'd conclude a QRP'er.  
>  
> I like SS454's and VW's....  
>  
> John wb5oau  
>  
>  
>  
>

-----  
Date: Tue, 17 Sep 2002 20:29:26 -0600  
From: "Rod N0RC" <rod@n0rc.us>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>,  
"cqc-l" <CQCLIST@yahoogroups.com>  
Subject: [135345] What's scarier than mounting surface mount parts?  
Message-ID: <001f01c25ebb\$363e67f0\$6401a8c0@greyrock>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Replacing a failed one!

A while back one of my rigs quit working. After some trouble shooting there was no doubt that a surface mount IC was bad. Of course it was buried around other tall parts. But I was resolved to fix it.

First I remove one tall part, a XTAL, to get access to the failed IC. Next I wicked away excess solder from the IC pins/pads. Then, carefully, I heated each pin/pad and lifted the lead with a dental pick (my dentist gives away his old implements to hobbyists, great tools for surface mount work). In less than five minutes the old part was out. Installing the new part was no more difficult than installing the original, just a little more care to not disturb surrounding posts.

Re-assembled the rig worked FB.

I feared this task at first, but dove in and quickly realized, we have nothing to fear but fear itself. We [hams] can do this SM stuff.

BTW way the rig a my 20m Rock-Mite. The part the SA602/612. Now you now the rest of the story. RE my post last week about 602/612 surface mount part sources. FWIW I got some parts from Allied, they ship fast, got the parts in about 3 or 4 days.

Don't ask how/why the part failed. ;-)

73, Rod NØRC

-----  
Date: Wed, 18 Sep 2002 02:52:01 +0100  
From: Chuck Adams <k7qo@earthlink.net>  
To: w8kc@comcast.net,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135346] Re: Announcement: W8KC "Golden Post" Award #1  
Message-ID: <5.1.0.14.0.20020918024957.00a0c0b0@mail.earthlink.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 09:45 PM 9/17/02 -0400, Paul Valko wrote:

---- snip, snip, snip ----

Paul,

Yes I have several hundred of the little puppies left, so will send one to Dave. No charge. :-) I may have to take some to Pacificon and see what they are worth. :-)

dit dit

Chuck Adams, K7QO CP-60 k7qo@earthlink.net  
<http://www.qsl.net/k7qo>

Moving to Arizona? --- Bring your own water, please.

-----  
Date: Tue, 17 Sep 2002 23:31:17 -0400  
From: "Mark J. Dulcey" <mark@buttery.org>  
To: WD8CIV@worldnet.att.net  
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [135347] Re: Used EZ-Hang or Equivalent Device  
Message-ID: <3D87F385.9090402@buttery.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Transfer-Encoding: 7bit

David Hinerman wrote:

>  
> Something I've been meaning to try, but my local Wally World doesn't  
> carry slingshots (if you can believe it).

Maybe you're in one of those places where they're illegal. I know that  
Massachusetts, where I live, is one such state. (It doesn't stop some hams I know  
from using them.)

-----  
Date: Tue, 17 Sep 2002 20:36:07 -0700  
From: "Doug Hendricks" <ki6ds@dospalos.org>  
To: "qrp-1" <qrp-1@lehigh.edu>  
Subject: [135348] Stable VFO's (I spelled it right this time!! Grin)  
Message-ID: <01e401c25ec4\$8854e060\$1fa3ad40@DOUG>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Guys help me out here. What transceiver kits put out in the last 10 years  
have had varactor tuned VFO's??

Here is a list of what I think were. Can somebody help me verify this list  
or add the ones that I have missed. Remember, we are talking varactor  
tuned, NOT capacitor tuned.

SWL40+ Varactor Tuned Verified  
K1 Varactor Tuned Verified

NorCal 40A Varactor Tuned Verified  
Red Hot 40 Varactor Tuned Verified  
Roy Gregson's 40 meter version of his transceiver (I suspect this is  
capacitor tuned. Can anyone verify this for me?)  
OHR 40 meter rig (I suspect this is capacitor tuned. Can anyone verify  
this for me?)  
MFJ Cub Varactor Tuned Verified  
2N2/40 Varactor Tuned Verified

Thanks for your help. 72, Doug, KI6DS

-----  
Date: Tue, 17 Sep 2002 20:43:36 -0700  
From: Scott Gregson <emtech@steadynet.com>  
To: ki6ds@dospalos.org, qrp-l <qrp-l@lehigh.edu>  
Subject: [135349] Re: Stable VFO's (I spelled it right this time!! Grin)  
Message-ID: <3D87F668.1000907@steadynet.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Transfer-Encoding: 7bit

The NW 80 - 20 kits are capacitor tuned.

~Scott kc7mas

Doug Hendricks wrote:

> Guys help me out here. What transceiver kits put out in the last 10 years  
> have had varactor tuned VFO's??  
>  
> Here is a list of what I think were. Can somebody help me verify this list  
> or add the ones that I have missed. Remember, we are talking varactor  
> tuned, NOT capacitor tuned.  
>  
> SWL40+ Varactor Tuned Verified  
> K1 Varactor Tuned Verified  
> NorCal 40A Varactor Tuned Verified  
> Red Hot 40 Varactor Tuned Verified  
> Roy Gregson's 40 meter version of his transceiver (I suspect this is  
> capacitor tuned. Can anyone verify this for me?)  
> OHR 40 meter rig (I suspect this is capacitor tuned. Can anyone verify  
> this for me?)  
> MFJ Cub Varactor Tuned Verified  
> 2N2/40 Varactor Tuned Verified  
>  
> Thanks for your help. 72, Doug, KI6DS

>  
>  
>  
>

-----  
Date: Tue, 17 Sep 2002 23:33:48 -0500  
From: "George, W5YR" <w5yr@att.net>  
To: kkanalz@gcecispc.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135350] Re: Weights For the "E-Z Hang"  
Message-ID: <3D88022C.1D9492BE@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Seldom will I raise voice against my good neighbor Karl, but duty demands that I mention a serious flaw in his recommendation. Doubtlessly, you could shoot tire weights into trees for years and never encounter this problem, but it is one that I seem to run into every time I put a line over a limb - which I have done about 20 times in the last few years (out of about 200 tries!).

The problem lies in the frustrating tendency of the weight to hang on anything within the reach of gravity, both going up and coming down. I have found that unless I use the smoothest possible weight, I get hung up coming down with the weight after getting the line over the limb. But the worst scenario is the one that is the most frequent: you miss the limb and have to retrieve the weight and line from "somewhere" up in the tree. Pulling the line "backwards" to take the weight back over the limb to the ground is usually where I get caught. Any irregular shape just reaches out and grabs anything handy and hangs on for dear life. A frequent solution is to just cut the line and tie on another weight and try again. There the low cost of discarded tire weights would really shine . . .

I have settled upon the conical-shaped lead sinkers weighing preferably about 1.5 to 2 ounces. They are becoming hard to find, by the way. Most stores seem to carry no heavier than one ounce sinkers.

Another cruel trick of nature in this game is played on you as you attempt to pull the next weight of line back over the limb. I normally use the Dacron olive-drab line from RadioWorks - lasts forever, sun can't touch it and tough as a boot for abrasion. I have found that if I tie the fishing line (I use 12-lb line) securely around the 3/16" dacron line and then use electrical tape to "streamline" the entire overlapped connection such that no edges are protruding, then the line and rope will trail backwards back

up and over the limb usually without hanging. The sinker must be removed from the fishing line first, of course, to prevent it from hanging.

I didn't intend for this to become a treatise on tree-fishing, but at my age and shape the only way you get a rope over a tree limb or a chimney or whatever is to first shoot a fishing line up and over and then drag the required lines up and over from the opposite direction. So, these little tricks - developed with much pain and frustration - may enable you to become more successful sooner.

By the way, my record for stubbornness is just under two hours to get a line over a crotch in a very tall cottonwood tree about 40 ft up. Not only was it a difficult shot but the weight, when it finally did decide to come down all the way, was several feet out over a creek and had to be dragged in with a rake! But that tree crotch now holds up the apex of my tilted loop and one end of a 20 meter EDZ and has for about four years.

Sorry, Karl, but I really think that folks will do a lot better with the smoothest possible fishing sinker.

73/72, George

Fairview, TX 30 mi NE of Dallas in Collin county EM13qe

Amateur Radio W5YR - the Yellow Rose of Texas

In the 57th year and it just keeps getting better!

Karl Kanalz wrote:

>

> If you need some heavy lead weights for launching your line over a tree,  
> just go to your nearest tire shop (Sears, Discount Tires, NTB, etc.) and  
> ask them for discarded tire-balancing weights!

>

> In fact, you'll often find them just lying on the ground outside the  
> shop(s), so you can put a few in your pocket and saunter off!

-----

Date: Wed, 18 Sep 2002 0:42:38 -0500

From: "Doc Lindsey K0EVZ" <dock0evz@earthlink.net>

To: "Fancher, Mark (GEAE)" <Mark.Fancher@ae.ge.com>

Cc: "qrp-l reflector" <qrp-l@lehigh.edu>,  
"doc k0evz earthlink" <dock0evz@earthlink.net>

Subject: [135351] RE: QRP Power

Message-ID: <412002931854238863@earthlink.net>

MIME-Version: 1.0

Content-type: text/plain; charset=US-ASCII

Mark:



Well it was a thrill to bag him, and I already sent my QSL care [g]. Hopefully he will reciprocate. Never have gotten a card from Israel, so maybe this time. And yep, the 515 is some kind of rig for QRP CW. Wow. Lots of fun and I hope to find another one for backup.

73,  
--Doc/K0EVZ

> [Original Message]  
> From: Fancher, Mark (GEAE) <Mark.Fancher@ae.ge.com>  
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
> Date: 9/17/2002 11:06:19 AM  
> Subject: QRP Power  
>  
> Last night, heard 4Z4DX on 20m CW. He was 549 into KY. Tried to get his  
> attention with 100W from my TS-940S to a sloping vee. After about 20  
minutes of  
> trying to piggyback a QS0, no luck.  
>  
> Then along comes K0EVZ running 3w. Bags him the first time.  
>  
> Mark, AA4MF

-----  
Date: Wed, 18 Sep 2002 02:37:40 -0400  
From: Tom Feeny <tfeeny@comcast.net>  
To: \*QRP-L <qrp-l@lehigh.edu>  
Subject: [135352] Re: Used EZ-Hang or Equivalent Device  
Message-ID: <001801c25edd\$e3ec6920\$865d2044@waldlk01.mi.comcast.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=iso-8859-1  
Content-transfer-encoding: 7BIT

A while back we had this thread and  
one guy didn't use the closed face reel.

He used a bow fishing reel which is just  
a big plastic spool. Said it didn't snag

as bad. He had a web site with pix of  
his idea. Anyone remember the URL?

Tom, W8K0X

-----  
Date: Wed, 18 Sep 2002 02:47:44 -0400 (EDT)  
From: "Scott Rosenfeld [N7JI]" <ham@w3eax.umd.edu>  
To: qrp-l <qrp-l@lehigh.edu>  
Subject: [135353] Considering selling my Jones iambic paddle  
Message-ID: <Pine.LNX.4.44.0209180246280.16277-100000@w3eax.umd.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I've had it for a long time and don't know what it's worth. Haven't used  
it much, and can't find much on the web regarding it. It's VERY heavy.

Anyway, if anyone is familiar with the Jones paddle and can help me price  
it for sale, please let me know.

Thanks,

Scott N7Ji

--  
Scott Rosenfeld ARS N7JI  
541-684-9970 Eugene, OR Land o' much rain  
If you find me on the air, I'm probably in my car  
ham@w3eax.umd.edu <http://w3eax.umd.edu/~ham>

-----  
Date: Wed, 18 Sep 2002 10:11:08 +0100  
From: "Jack Bennett" <J.Bennett@lboro.ac.uk>  
To: <john@wagner-usa.net>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135354] Re: Used EZ-Hang or Equivalent Device  
Message-ID: <008b01c25ef3\$53452720\$98327d9e@pc2000eljb5>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi Guys,

Interesting thread this. You can adopt the brut force method, but my experience says that it is all about power to weight ratio. I have found that a weight of no more than 1 1/4 oz is ideal using 6 lb line off a full reel. I also spray the line on the reel with silicon to ease the transition through the tree. I also have about twelve feet of leader using 20lb Orange coloured sea fishing line to make it easy to see the end of the line after firing. The slingshot I use is one I bought here in UK, it is called the "Black Widow" and has the usual metal folding wrist guard. It uses surgical elastic tube about 1/4 inch diam. Using this system, I regularly fire over 100 ft trees and have great success with it..

73,

Jack  
G3PVG.

----- Original Message -----

From: "john" <john@wagner-usa.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Wednesday, September 18, 2002 2:47 AM

Subject: Re: Used EZ-Hang or Equivalent Device

> In fact I have... didn't do a thing for my slice or putting.  
>  
> FWIW, I use a hockey puck as my weight for hanging antenners using 25lb  
> fishing line and the armstrong method of launching. Works great up to  
> about 65ft high.  
>  
> 73,  
>  
> John, N1QO  
>  
> David Hinerman wrote:  
> >  
> >> I tie-wrapped my reel to a tent peg and stick it in the ground a few  
> feet  
> >> to one side of me. If there's a snag, I'm probably out of the line of  
> >> fire. BTW it's getting hard to find the larger sinkers at area  
> WalMarts.  
> >> Mostly 1 oz and under these days.  
> >  
> >  
> > Something I've been meaning to try, but my local Wally World doesn't  
> > carry slingshots (if you can believe it). I've wondered if a golf ball  
> > with a small screw eye would be suitable.  
> >  
> > Anybody tried it?

> >  
> > Dave  
> >  
> > -----  
> > "You can fool some of the people all of the time. That's enough to make  
> > a living." - Lance Burton  
> > -----  
> > Dave Hinerman  
> > WD8CIV@att.net  
> >  
> >  
> >  
>  
> --  
> John Wagner - john@wagner-usa.net  
> Web page: <http://www.neknetwork.com>  
>  
>  
>

-----  
Date: Wed, 18 Sep 2002 03:02:24 -0700  
From: "Trevor Jacobs" <kg6cyn@earthlink.net>  
To: <w5yr@att.net>,  
    "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135355] Re: Weights For the "E-Z Hang"  
Message-ID: <00ab01c25efa\$7d9f1dd0\$13e4b3d1@tjnotebook>  
MIME-Version: 1.0  
Content-Type: text/plain;  
    charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I've had the same problem with the "Sink-Eatin'-Trees" we have out here, Hi! I've also had problems with "Antenna-Rope-Eatin'-Squirrels"! I found my Center Fed Zepp hanging very low in the tree last week, and upon inspection found that the 5/16" "Antenna Rope" I'd used to hang it had been chewed through. One those "Peksy" Squirrels got to it. Took me a few shots with the EZ-Hang to get the rope up over the branch I was aiming for as it was a very windy day. The good news is that I got the rope up over a branch about 15' higher in the tree, so this Winter, I'm going to raise the antenna higher and make it longer.

I don't understand why an EZ-Hang would be illegal anywhere. With a little common sense, they are a very effective tool for getting a rope over a tree. One good rule of thumb is to ALWAYS wear safety goggles. Also, one other comment, I've never had the line snag coming out of the Zebco reel. It works

great. I use it almost every time we go camping.

73's Trev KG6CYN

<http://home.earthlink.net/~kg6cyn>

<http://www.qsl.net/kg6cyn>

----- Original Message -----

From: "George, W5YR" <w5yr@att.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Tuesday, September 17, 2002 9:33 PM

Subject: Re: Weights For the "E-Z Hang"

> Seldom will I raise voice against my good neighbor Karl, but duty demands  
> that I mention a serious flaw in his recommendation. Doubtlessly, you  
could  
> shoot tire weights into trees for years and never encounter this problem,  
> but it is one that I seem to run into every time I put a line over a  
limb -  
> which I have done about 20 times in the last few years (out of about 200  
> tries!).  
>  
> The problem lies in the frustrating tendency of the weight to hang on  
> anything within the reach of gravity, both going up and coming down. I  
have  
> found that unless I use the smoothest possible weight, I get hung up  
coming  
> down with the weight after getting the line over the limb. But the worst  
> scenario is the one that is the most frequent: you miss the limb and have  
> to retrieve the weight and line from "somewhere" up in the tree. Pulling  
> the line "backwards" to take the weight back over the limb to the ground  
is  
> usually where I get caught. Any irregular shape just reaches out and grabs  
> anything handy and hangs on for dear life. A frequent solution is to just  
> cut the line and tie on another weight and try again. There the low cost  
of  
> discarded tire weights would really shine . . .  
>  
> I have settled upon the conical-shaped lead sinkers weighing preferably  
> about 1.5 to 2 ounces. They are becoming hard to find, by the way. Most  
> stores seem to carry no heavier than one ounce sinkers.  
>  
> Another cruel trick of nature in this game is played on you as you attempt  
> to pull the next weight of line back over the limb. I normally use the  
> Dacron olive-drab line from RadioWorks - lasts forever, sun can't touch it  
> and tough as a boot for abrasion. I have found that if I tie the fishing  
> line (I use 12-lb line) securely around the 3/16" dacron line and then use  
> electrical tape to "streamline" the entire overlapped connection such that  
> no edges are protruding, then the line and rope will trail backwards back

> up and over the limb usually without hanging. The sinker must be removed  
> from the fishing line first, of course, to prevent it from hanging.  
>  
> I didn't intend for this to become a treatise on tree-fishing, but at my  
> age and shape the only way you get a rope over a tree limb or a chimney or  
> whatever is to first shoot a fishing line up and over and then drag the  
> required lines up and over from the opposite direction. So, these little  
> tricks - developed with much pain and frustration - may enable you to  
> become more successful sooner.  
>  
> By the way, my record for stubbornness is just under two hours to get a  
line  
> over a crotch in a very tall cottonwood tree about 40 ft up. Not only was  
> it a difficult shot but the weight, when it finally did decide to come  
down  
> all the way, was several feet out over a creek and had to be dragged in  
> with a rake! But that tree crotch now holds up the apex of my tilted loop  
> and one end of a 20 meter EDZ and has for about four years.  
>  
> Sorry, Karl, but I really think that folks will do a lot better with the  
> smoothest possible fishing sinker.  
>  
> 73/72, George  
> Fairview, TX 30 mi NE of Dallas in Collin county EM13qe  
> Amateur Radio W5YR - the Yellow Rose of Texas  
> In the 57th year and it just keeps getting better!  
>  
>  
> Karl Kanalz wrote:  
> >  
> > If you need some heavy lead weights for launching your line over a tree,  
> > just go to your nearest tire shop (Sears, Discount Tires, NTB, etc.) and  
> > ask them for discarded tire-balancing weights!  
> >  
> > In fact, you'll often find them just lying on the ground outside the  
> > shop(s), so you can put a few in your pocket and saunter off!  
>

-----  
Date: Wed, 18 Sep 2002 06:49:52 -0400  
From: "Michael Bower N4NMR" <bowerm@ix.netcom.com>  
To: "Qrp-L" <qrp-l@lehigh.edu>  
Subject: [135356] curtis keyer chip?  
Message-ID: <ODEOIKLMAJFGCNMOGAGIMEJHCGAA.bowerm@ix.netcom.com>  
MIME-Version: 1.0

Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi, folks,

At the gaithersburg (Md) hamfest, we picked up an MFJ Econo Keyer that uses the Curtis Keyer chip. The guy said the keyer was fine mechanically and the board but the keyer chip itself was bad. Sure enough, I "borrowed" a curtis chip from one of my other keyers and it then worked.

I don't want to permanently remove the chip from my current keyer so I'd like to get a new (replacement) Curtis chip.

Are Curtis keyer chips still available anywhere?

72

Michael N4NMR

-----  
Date: Wed, 18 Sep 2002 07:19:41 -0400  
From: Bruce Muscolino <w6toy@erols.com>  
To: Larry Cahoon <lejek@erols.com>, qrp-1@lehigh.edu  
Subject: [135357] Re: A thought  
Message-ID: <3D88614D.B65663D9@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Sounds like a realistic approach to ham radio. I did much the same thing. In 1980 I Bought a TS130V. I was living in Holland at the time. When I returned to the US I left the radio at my mother's condo in Maryland. I used it there for about 12 years when I came back on vacation.

I moved to Maryland in 1994. I used it as my main station rig until last year. Along the way I bought a house and moved it there. I have DXCC and WAS at both locations, and with QRP and also QRO power. It satisfied my needs until I decided to go QRO again!

73

-----  
Date: Wed, 18 Sep 2002 07:27:20 -0400

From: Jimmy Lee <jrlaudio@bellsouth.net>  
To: Fghester@aol.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135358] Re: QRP Nets ? / CW  
Message-ID: <3D886317.306542B9@bellsouth.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Try the QRP-ARCI net site  
Jimmy, AE4DT

Fghester@aol.com wrote:

> Can anyone direct me to a current list of CW QRP nets? Thanks! / Woody / WD9F

-----  
Date: Wed, 18 Sep 2002 07:26:36 -0400  
From: Bruce Muscolino <w6toy@erols.com>  
To: kkanalz@gcecisp.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135359] Re: Weights For the "E-Z Hang"  
Message-ID: <3D8862EC.EE015602@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

A safer way to get weight for any antenna launching system is to buy fishing weights. They are lead, they come in a variety of sizes, they are available almost anywhere, and they can be safely attached to the line! Tire weights can do none of these things easily!

73

-----  
Date: Wed, 18 Sep 2002 04:35:56 -0700 (PDT)  
From: Patrick Gardella <pgardella@yahoo.com>  
To: bowerm@ix.netcom.com,  
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135360] Re: curtis keyer chip?  
Message-ID: <20020918113556.56564.qmail@web40207.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Michael,



MFJ used to sell them:  
Part # CK-8045ABM  
Price \$19.95

May be others, but that one came to mind first.

73,  
Patrick N3EO

--- Michael Bower N4NMR <bowerm@ix.netcom.com> wrote:  
> Hi, folks,  
>  
> At the gaithersburg (Md) hamfast, we picked up an MFJ Econo Keyer that uses  
> the Curtis Keyer chip. The guy said the keyer was fine mechanically and the  
> board but the keyer chip itself was bad. Sure enough, I "borrowed" a curtis  
> chip from one of my other keyers and it then worked.  
>  
> I don't want to permanently remove the chip from my current keyer so I'd  
> like to get a new (replacement) Curtis chip.  
>  
> Are Curtis keyer chips still available anywhere?  
>  
> 72  
>  
> Michael N4NMR  
>

-----  
Do you Yahoo!?  
Yahoo! News - Today's headlines  
<http://news.yahoo.com>

-----  
Date: Wed, 18 Sep 2002 07:31:17 -0400  
From: Bruce Muscolino <w6toy@erols.com>  
To: WD8CIV@worldnet.att.net, qrp-1@lehigh.edu  
Subject: [135361] Re: Used EZ-Hang or Equivalent Device  
Message-ID: <3D886405.95CF2FF7@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Many localities prohibit slingshots for safety reasons. In fact, I am surprised that the People's Republic of Maryland still allows their sale! If you can go to another jurisdiction maybe you can find one.

Otherwise, it depends on your aim and arm strength with the golf ball!

73

-----  
Date: Wed, 18 Sep 2002 07:47:53 -0400  
From: Bruce Muscolino <w6toy@erols.com>  
To: w2wurjj@verizon.net  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135362] Re: QRPvs.QRO  
Message-ID: <3D8867E9.F4BD119D@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

It all depends on your antenna, the frequency in use, and the range to the other net members. I will agree that on some frequencies you will not see a difference. But, if the net is nationwide, you will see a difference!

Be realistic, there are times and places when power is somewhat necessary. Otherwise, why did the military invest so heavily in Collins rigs for MARS use?

73

-----  
Date: Wed, 18 Sep 2002 07:54:30 -0400  
From: Bruce Muscolino <w6toy@erols.com>  
To: w2wurjj@verizon.net  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135363] Re: VFO CONSTRUCTION/MATERIALS?  
Message-ID: <3D886976.E406D186@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I believe there are two "materials" issues here. The first is mechanical. Any metal materials will work about the same, as long as you provide for mechanical issues. You want to use double bearings so there is less, or no distortion from movement. You want to use a material that will expand and contract at a known rate. There is no difference in whether you use aluminum or steel, gold, or nickel plate, As long as you compensate for the mechanical movements.

Electrical stability depends on the power levels used, Most VFO's use separate oscillator compartments and external buffer stages. The method of tuning is more mechanical than electrical. The butters generate the most heat.

73

-----  
Date: Wed, 18 Sep 2002 07:39:36 -0400  
From: Bruce Muscolino <w6toy@erols.com>  
To: ki6ds@dospalos.org  
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [135364] Re: Stable VFO's (I spelled it right this time!! Grin)  
Message-ID: <3D8865F8.91B2B701@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

The Roy Gregson kit I had was capacitor tuned. Varactors have their place, but for large frequency ranges, capacitors seem better,. Also, please don't forget the Heathkits, they were all capacitor tuned.

73

-----  
Date: Wed, 18 Sep 2002 07:58:11 -0400  
From: Bruce Muscolino <w6toy@erols.com>  
To: david.gauding@bbs.galilei.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [135365] Re: My Old Argonaut 509 (very long)  
Message-ID: <3D886A53.F5FCEC3D@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Quite a treatise! Probably would make a better article for the "Low Down" though.

I have owned three 509's. They are really delightful rigs. Ten Tec should be praised for bringing such a great little rig to the market! I owned my first one in about 1976! The last one I sold in 1998. I currently have a very nice 515.

73

-----  
Date: Wed, 18 Sep 2002 07:43:24 -0400  
From: "John Huffman" <hjohnc@core.com>  
To: <tfeeny@comcast.net>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135366] Re: Used EZ-Hang or Equivalent Device  
Message-ID: <005601c25f08\$9974a210\$78075dd8@jhuffman1t>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

[http://www.natworld.com/ars/pages/back\\_issues/2002\\_text/0302\\_text/launching.html](http://www.natworld.com/ars/pages/back_issues/2002_text/0302_text/launching.html)

>  
> A while back we had this thread and  
> one guy didn't use the closed face reel.  
>  
> He used a bow fishing reel which is just  
> a big plastic spool. Said it didn't snag  
> as bad. He had a web site with pix of  
> his idea. Anyone remember the URL?  
>  
> Tom, W8K0X  
>  
>  
>  
>

-----  
Date: Wed, 18 Sep 2002 08:02:54 -0400  
From: "John O. Newell" <jnewell@attbi.com>  
To: unlisted-recipients;; (no To-header on input)  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135367] Re: Used EZ-Hang or Equivalent Device  
Message-ID: <3D886B6E.EB144BD8@attbi.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

> Many localities prohibit slingshots for safety reasons

To respond to an earlier post, my recollection is that  
slingshots are illegal to sell in Massachusetts, but not

to own or use. So, you can mailorder them, or hop up to NH or down to CT.

The foregoing, of course, is not legal advice, and in any case is subject to my not-yet-diagnosed EOS.

72/73

John Newell KB1FPM

-----  
Date: Wed, 18 Sep 2002 08:18:57 -0400  
From: "Lee Mairs" <lmairs@cox.net>  
To: <kc8aon@juno.com>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135368] Re: SW 40+ Audio  
Message-ID: <007801c25f0d\$9028ed10\$6401a8c0@boomer>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Micro Center has a trio of two speakers, and a sub-woofer that includes a wall wart power supply for under \$9 on sale at the moment. It is designed to be used with either a MP3 portable player or a computer system. I bought one and will carry it to WBGV this weekend to try it with my QRP rigs.

73 de Lee

KM4YY

----- Original Message -----

From: "Rick McKee" <kc8aon@juno.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Tuesday, September 17, 2002 7:20 PM  
Subject: SW 40+ Audio

> Gang,

> Has anyone on the list added an audio amp and internal speaker to the  
> SW 40+ ? How did you go about it, or are there any webpages you can  
> point me to ? Also, I keep hearing about a 5 watt mod for the Sw 40+,  
> but after doing several searches, cannot find any info. Does anyone have  
> a link for this or any other useful mods for the rig ?

>

> 72/73 DE: [K] [C] [8] [A] [0] [N]

> Rick McKee

> Willow Wood, Ohio  
> QRP- do more with less !  
> QRP-L #2112, FPqrp #33, AR QRP #269  
>  
>  
>  
-----  
> GET INTERNET ACCESS FROM JUNO!  
> Juno offers FREE or PREMIUM Internet access for less!  
> Join Juno today! For your FREE software, visit:  
> <http://dl.www.juno.com/get/web/>.  
>

-----  
Date: Wed, 18 Sep 2002 08:43:47 -0400  
From: "Lee Mairs" <lairs@cox.net>  
To: <john@wagner-usa.net>,  
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [135369] Re: Used EZ-Hang or Equivalent Device  
Message-ID: <00d401c25f11\$083c0870\$6401a8c0@boomer>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Are you trying to tell us that you can throw a hockey puck 65 feet into the air???

73 de Lee, KM4YY

----- Original Message -----  
From: "john" <john@wagner-usa.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Sent: Tuesday, September 17, 2002 9:47 PM  
Subject: Re: Used EZ-Hang or Equivalent Device

> In fact I have... didn't do a thing for my slice or putting.  
>  
> FWIW, I use a hockey puck as my weight for hanging antenners using 25lb  
> fishing line and the armstrong method of launching. Works great up to  
> about 65ft high.  
>  
> 73,

>  
> John, N1Q0  
>  
> David Hinerman wrote:  
> >  
> >> I tie-wrapped my reel to a tent peg and stick it in the ground a few  
feet  
> >> to one side of me. If there's a snag, I'm probably out of the line of  
> >> fire. BTW it's getting hard to find the larger sinkers at area  
WalMarts.  
> >> Mostly 1 oz and under these days.  
> >  
> >  
> > Something I've been meaning to try, but my local Wally World doesn't  
> > carry slingshots (if you can believe it). I've wondered if a golf ball  
> > with a small screw eye would be suitable.  
> >  
> > Anybody tried it?  
> >  
> > Dave  
> >  
> > -----  
> > "You can fool some of the people all of the time. That's enough to make  
> > a living." - Lance Burton  
> > -----  
> > Dave Hinerman  
> > WD8CIV@att.net  
> >  
> >  
> >  
>  
> --  
> John Wagner - john@wagner-usa.net  
> Web page: <http://www.neknetwork.com>  
>  
>

-----  
Date: Wed, 18 Sep 2002 09:01:49 -0400  
From: David Hinerman <WD8CIV@worldnet.att.net>  
To: qrp-l@lehigh.edu  
Subject: [135370] blast from the (recent) past  
Message-ID: <5.1.0.14.1.20020918090032.00a78050@ipostoffice.worldnet.att.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Folks,

I just discovered the QRP HomeBuilder Homepage is back up at

<http://www.qrp.pops.net/>

My day just got better.

Dave

-----  
I'd rather be thought ignorant than stupid. Ignorance is curable.  
-----

Dave Hinerman  
WD8CIV@worldnet.att.net

-----  
Date: Wed, 18 Sep 2002 08:30:21 -0500  
From: Karl Kanalz <kkanalz@gcecis.com>  
To: "'ki6ds@dospalos.org'" <ki6ds@dospalos.org>,  
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135371] RE: Stable (Varactor-tuned) VFO's  
Message-ID: <01C25EED.A726E780@KKANALZ>

Don't forget the Ten-Tec 13nnn series of transceivers, Doug. They are varactor tuned.

Karl K - W8TIF  
McKinney, Texas

-----Original Message-----

From: Doug Hendricks [SMTP:ki6ds@dospalos.org]  
Sent: Tuesday, September 17, 2002 10:36 PM  
To: Low Power Amateur Radio Discussion  
Subject: Stable VFO's (I spelled it right this time!! Grin)

Guys help me out here. What transceiver kits put out in the last 10 years have had varactor tuned VFO's??

Here is a list of what I think were. Can somebody help me verify this list or add the ones that I have missed. Remember, we are talking varactor tuned, NOT capacitor tuned.<snip>



-----  
Date: Wed, 18 Sep 2002 06:32:24 -0700 (PDT)  
From: Lloyd Lachow <llachow@yahoo.com>  
To: qrp-1@lehigh.edu  
Subject: [135372] Re: Used EZ-Hang or Equivalent Device  
Message-ID: <20020918133224.59874.qmail@web10008.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

FWIW: After using a bolt to throw, having a very tough time getting it anywhere I wanted it, or very much height, getting poison ivy, and hitting myself in the head with the bolt, I rigged up my own "E-Z Hang", as follows: I took the bottom half of a spinning rod, with open-faced spinning reel attached, and stuck it in the ground at an angle, facing the direction I wanted to have my line go. I used a "Wrist Rocket" slingshot I've had around for years, and attached a small, lead fishing weight to the end of the line, along with a couple of short pieces of brightly-colored flagging tape, to assist in locating the weight after deployment. Success was then remarkably easy, with great height and accuracy. I used a messenger line of strong twine to follow the monofilament, then used the twine to hoist the wire.  
72, Lloyd, K3ESE

-----  
Do you Yahoo!?  
Yahoo! News - Today's headlines  
<http://news.yahoo.com>

-----  
Date: Wed, 18 Sep 2002 07:52:43 -0500  
From: "Mark Andrews" <KE4IOF@ke4iof.com>  
To: <bowerm@ix.netcom.com>,  
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [135373] Re: curtis keyer chip?  
Message-ID: <004501c25f12\$487e6c10\$b16e640a@vitalworks.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Have you tried MFJ?

<http://www.mfjenterprises.com/products.php?prodid=CK-8045ABM>

Mark

-----  
Mark A. Andrews

----- Original Message -----

From: "Michael Bower N4NMR" <bowerm@ix.netcom.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Wednesday, September 18, 2002 5:49 AM  
Subject: curtis keyer chip?

> Hi, folks,  
>  
> Are Curtis keyer chips still available anywhere?  
>  
> 72  
>  
> Michael N4NMR

-----  
Date: Wed, 18 Sep 2002 08:36:46 -0500  
From: David Gauding <david.gauding@bbs.galilei.com>  
To: qrp-l@lehigh.edu  
Cc: w8kc@comcast.net, k7qo@earthlink.net  
Subject: [135374] Fwd: Announcement: W8KC "Golden Post" Award #1  
Message-ID: <5.1.1.6.0.20020918082146.00a0da00@bbs.galilei.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

GM Paul,

I'm honored to be the first recipient of your new QRP-L award. Needless to say, it is totally unexpected. I'm glad you enjoyed the post and thanks for being so thoughtful.

I hadn't planned to write that much material about the 509. Sometimes it's hard to stop once you get started. <g>

Thanks also to Chuck. I'll be watching the mailbox! <g>

Best regards,

de Dave, NF0R      nf0r@slacc.com

-----  
Date: Wed, 18 Sep 2002 09:56:50 -0400  
From: W2AGN <w2agn@w2agn.net>  
To: lmairs@cox.net,  
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135375] Re: Used EZ-Hang or Equivalent Device  
Message-ID: <3D884DE2.20907.1459E859@localhost>  
MIME-version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Content-description: Mail message body

On 18 Sep 2002 at 8:43, Lee Mairs wrote:

> Are you trying to tell us that you can throw a hockey puck 65 feet into the  
> air???  
>  
> 73 de Lee, KM4YY  
>

If he can, you don't want to mess with him ;-)

Seriously though, we have some on the list that can throw bull pockey at least that far, so why not?

--

/ \ / \ / \ / \ / \ John L. Sielke  
( W )( 2 )( A )( G )( N ) <http://www.w2agn.net>  
 \\_ / \\_ / \\_ / \\_ / \\_ / QRPARI, NJQRP, ARQrp, GQRP, RSGB  
Ex- K3HLU, W7JEF, W4MPC, N4JS

-----  
Date: Wed, 18 Sep 2002 08:01:58 -0600  
From: "" <markb@abq.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135376] Re: What's scarier than mounting surface mount parts?  
Message-ID: <230676065b4a4a2eb1fbe71f68e23c45.markb@abq.com>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: quoted-printable

> Subject: What's scarier than mounting surface mount parts?

> Replacing a failed one!

> First I remove one tall part, a XTAL, to get access to the failed IC=2E  
> Next I wicked away excess solder from the IC pins/pads=2E Then, carefully,  
> I heated each pin/pad and lifted the lead with a dental pick =2E=2E=2E  
> In less than five minutes the old part was out=2E=20

Why desolder a failed part and risk damaging the PCB or surrounding parts?=20  
Just cut the legs of the IC, remove it, then clean off each pad with an iron=  
=20  
and some solder wick or vacuum desoldering iron=2E No sense in spending the  
time desoldering a part you're going to toss anyway=2E

Mark K5LXP  
Albuquerque, NM  
k5lxp@arrl=2Enet

-----  
Date: Wed, 18 Sep 2002 09:50:35 -0400  
From: "ss lyon" <sslyon@megalink.net>  
To: <J.Bennett@lboro.ac.uk>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135377] EZ-Hang & Equivalents  
Message-ID: <003701c25f1a\$5d992060\$aac7e742@megalink.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Fine example of "The Perspective Thing", where there are many opinions based on success in different situations. Here in the upper right corner of US, I very seldom use a weight smaller than three oz. nor line lighter than 15 lb on an open face spinning reel. Given the high percentage of resinous conifers and trees w/grabby bark, nothing less will \*reliably\* pull the line down thru trees, then pull the 2nd-ary line back up and over the tree. I do this dozens of times per year... believe me.

Law rightfully prohibits lead sinkers in fresh water, but coastal salt water is still ok so they're available even in the big box stores near the coast. Considerations in my eqp't. choices: (See early "QRP Home Brewer" article)  
\* 3 oz. tear-drop (paint day glo) clears obstacles easiest and is self-limiting at about 120' vert. while pulling a line.

\* 15 - 20 lb. line is robust for tugging , endures abrasion and attack by conifer sap.  
\* Open face spinning reel on bottom half of a fishing rod (w/one ferrule) rarely fowls; easy to re-load;

I never pull a weight back up and over a tree if it can possibly get down within reach. That's asking for frustration. Detach the weight, then reel the unburdened line back and re-shoot.

72

AA1MY

Seabury & Sharon Lyon  
99 Sparrowhawk Mtn Rd  
Bethel ME, 04217 U.S.A.  
207-836-2576

Virus Protection by Norton and ZoneAlarm

----- Original Message -----

From: "Jack Bennett" <J.Bennett@lboro.ac.uk>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Wednesday, September 18, 2002 5:11 AM

Subject: Re: Used EZ-Hang or Equivalent Device

> Hi Guys,

>

> Interesting thread this. You can adopt the brut force method, but my  
> experience says that it is all about power to weight ratio. I have found  
> that a weight of no more than 1 1/4 oz is ideal using 6 lb line off a full  
> reel.

-----  
Date: Wed, 18 Sep 2002 10:19:30 -0400

From: "E. Roswell" <eroswell@monmouth.com>

To: qrp-1@lehigh.edu

Subject: [135378] Re: Used EZ-Hang or Equivalent Device

Message-ID: <3D888B72.AAA5BE5E@monmouth.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

In the People's Republic of New Jersey, it is illegal to sell, buy or possess, so you won't see them in any stores. But I also don't think you would have a problem using one, as long as you don't come close to putting it near someone's windows.

The archery device I use is a "Deer Tracker". Available in Sports Authority

and like stores. Very light line, attaches to an arrow with minimum drag so as to make a trail to follow a wounded deer. It has a 1/4 X 20 stud on one end; drill a hole in the slingshot handle & the device which holds the line sits neatly below the sling and will pay out neatly.

I use a one ounce sinker and it usually goes further than I think. But if you grab the line prematurely, it will spin over the branch it just passed over, and you cannot easily retrieve it. Comes in 1000 or 2500 feet reloadable spools, so you gather it up and dispose of it properly after you have successfully (and unsuccessfully) made your shots. Needless to say, you must pull a heavier line across to pull up an antenna wire of any substance.

73, Ed, K2MGM

-----  
Date: Wed, 18 Sep 2002 09:20:32 -0500  
From: Ed Manuel <emanuel@datacomdesign.com>  
To: qrp-l@lehigh.edu  
Subject: [135379] Used EZ-Hang or Equivalent Device  
Message-ID: <4.3.2.7.2.20020918091646.00d32a50@mail.directvinternet.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

My favorite weight is a spark plug socket, carefully taped to be smooth. Hollow, so its easy to tie the line on. Heavy enough to pull itself through to the ground. Be sure to tape the back end where the cord exits so you can pull it back a ways to clear a branch without getting hung. Must weight at least 3 oz. though I've never weighted it.

Ed, N5EM

-----  
Date: Wed, 18 Sep 2002 09:25:06 -0500  
From: <stanw@toxsor.com>  
To: <qrp-l@lehigh.edu>  
Subject: [135380] StarTek International Counter question ATH-15  
Message-ID: <000501c25f1f\$32f16160\$0364010a@toxsor.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Anyone know what voltage is required to charge the internat batteries on the ATH-15. I can not locate their web site ???

Thanks, Stan ak0b

-----  
Date: Wed, 18 Sep 2002 10:14:34 -0400  
From: Michael Pupeza <mpupeza@sympatico.ca>  
To: <qrp-l@lehigh.edu>  
Subject: [135381] Antenna Launching Hints!  
Message-ID: <B9AE0285.9B98%mpupeza@sympatico.ca>  
Mime-version: 1.0  
Content-type: text/plain; charset="US-ASCII"  
Content-transfer-encoding: 7bit

I have several hints for Newbies trying to put a 'Temporary' antenna in a tree, using a slingshot and fishing reel.

- 1/ Use a round lead weight of about 2 oz., available in salt water fishing stores. Get a bunch - you WILL lose some!
- 2/ Paint it with fluorescent paint, BRIGHT colours, differing from the vegetation.
- 3/ Use a 3 line system - that is - shoot 1st using the thin monofilament fishing line. Then pull back an intermediate strong line, I use some nylon lacing thread from a big spool I had. (It isn't twisted, so it doesn't curl or kink). Then pull back your main antenna support line. I use about 1/8 to 1/4 in. UV treated braided dacron, usually black or khaki colour (Ropeman at Dayton!). That means that you shoot your 1st line from where your antenna will be located.
- 4/ If you can't shoot from the antenna side, then an ADDITIONAL line pull will be required. Don't try to skip the intermediate line pull.
- 5/ DON'T BOTHER TRYING FOR A SPECIFIC BRANCH OR LIMB! Just shoot over the highest, or centre of the tree! The line will 'settle' down to where it will hold well, and the cushioning effect of the smaller branches that the line sits on will allow the tree movement to minimize chafing and snap tensions on the antenna.
- 6/ These hints are for TEMPORARY antennas, such as used for camping trips, Field Day, or Contesting. Probably good for a whole season or two, but not for permanent antennas, where long term chafing will probably fail the lines at some point.
- 7/ While it's a good idea to have someone else watch where the shot is going, ensure that they stand well off to the side, and wear a hard hat (if possible). My friend Rick, VE3IMG, tells me that that 2 oz. weight really stings when it hit him in the back as he, inadvertently, got in the way when it swung down. We will NEVER do that trick again!
- 8/ For the record, I use a Coleman Product (Crossman?) Wrist Rocket, with a mounted Zebco 404 reel. I used a piece of an old kid's rod, cut up, and

screwed to the bottom of the plastic handle of the slingshot. It 'looks' like the commercial EZ-Hang (TM) version.

Hope this gave some additional pointers.  
Enjoy and 72, 73.

Mike Pupeza VE3EQP

-----  
Date: Wed, 18 Sep 2002 10:15:51 -0400  
From: David Hinerman <WD8CIV@worldnet.att.net>  
To: qrp-1@lehigh.edu  
Subject: [135382] Re: What's scarier than mounting surface mount parts?  
Message-ID: <5.1.0.14.1.20020918101032.00a498f0@ipostoffice.worldnet.att.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

> > First I remove one tall part, a XTAL, to get access to the failed IC.  
> > Next I wicked away excess solder from the IC pins/pads. Then, carefully,  
> > I heated each pin/pad and lifted the lead with a dental pick ...  
> > In less than five minutes the old part was out.  
>  
>  
>Why desolder a failed part and risk damaging the PCB or surrounding parts?  
>Just cut the legs of the IC, remove it, then clean off each pad with an iron  
>and some solder wick or vacuum desoldering iron. No sense in spending the  
>time desoldering a part you're going to toss anyway.

I agree, if you can get a small enough sidecutter in to cut the leads. You can usually cut several leads in one snip.

I knew a guy who replaced failed micros in HTs with a Dremel tool. He'd use a cutting disk to slice the leads off a 100-pin surface mount chip, shake the body of the chip out of the box, then solder-wick the remains of the leads off the board.

He did, occasionally, slice off a nearby surface-mount cap (usually a tantalum, since they tend to be taller) but he never did cut a board.

Dave

-----  
I'd rather be thought ignorant than stupid. Ignorance is curable.  
-----



Dave Hinerman  
WD8CIV@worldnet.att.net

-----  
Date: Wed, 18 Sep 2002 10:35:36 -0400 (EDT)  
From: Thom LaCosta <baltimoremd@baltimoremd.com>  
To: W2AGN <w2agn@w2agn.net>  
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [135383] Re: Used EZ-Hang or Equivalent Device  
Message-ID: <20020918103434.V36968-100000@unix1.vhost.min.net>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 18 Sep 2002, W2AGN wrote:

> Seriously though, we have some on the list that can throw bull pucky at least that far

And as luck would have it, that type of projectile hi-jinks has yet to be outlawed (g)

Thom

baltimoremd@baltimoremd.com  
<http://www.baltimoremd.com/>  
<http://www.baltimorehon.com/>  
<http://www.zerobeat.net>

Thom LaCosta K3HRN Webmaster  
Baltimore's Home Page  
Home of the Baltimore Lexicon  
Home of The QRP Web Ring  
and Drake Mail List Pages

-----  
Date: Wed, 18 Sep 2002 10:38:09 -0400  
From: "W3CDE Jerry L." <w3cde@bellsouth.net>  
To: markb@abq.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [135384] Re: What's scarier than mounting surface mount parts?  
Message-ID: <3D888FD1.7D0BF1C2@bellsouth.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

With some pins as close as they are... It is VERY difficult to cut individual pins, unless your bench is equipped with a high power laser to vaporize each lead. Cutting is much easier

said than done!

Jerry  
W3CDE

markb@abq.com wrote:

>  
> > Subject: What's scarier than mounting surface mount parts?  
>  
> > Replacing a failed one!  
>  
> > First I remove one tall part, a XTAL, to get access to the failed IC.  
> > Next I wicked away excess solder from the IC pins/pads. Then, carefully,  
> > I heated each pin/pad and lifted the lead with a dental pick ...  
> > In less than five minutes the old part was out.  
>  
> Why desolder a failed part and risk damaging the PCB or surrounding parts?  
> Just cut the legs of the IC, remove it, then clean off each pad with an iron  
> and some solder wick or vacuum desoldering iron. No sense in spending the  
> time desoldering a part you're going to toss anyway.  
>  
> Mark K5LXP  
> Albuquerque, NM  
> k5lxp@arrl.net

-----  
Date: Wed, 18 Sep 2002 11:10:45 -0400  
From: "Mark J. Dulcey" <mark@buttery.org>  
To: kg6cyn@earthlink.net  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135385] Re: Weights For the "E-Z Hang"  
Message-ID: <3D889775.6070100@buttery.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Transfer-Encoding: 7bit

Trevor Jacobs wrote:

>  
> I don't understand why an EZ-Hang would be illegal anywhere. With a little  
> common sense, they are a very effective tool for getting a rope over a tree.

Well, the fact is that a slingshot, whether or not it has an attached fishing reel, can be a dangerous weapon. Aim it at the top of a tree for launching antennas, and it's a force for good. Aim it at a car window, or at somebody's eye, and it's a different story. I'm not saying that I favor such laws, but there is

some justification for them.

-----  
Date: Wed, 18 Sep 2002 11:08:12 -0400  
From: "Ronald A Pfeiffer" <Ronald\_A\_Pfeiffer@raytheon.com>  
To: qrp-1@lehigh.edu, neqrp@jona1.net  
Subject: [135386] Last nights NEQRP SSB NET action on 7.287Mhz  
Message-ID: <0F66AB74B1.07C61A43-ON85256C38.00510176@and.us.ray.com>  
MIME-Version: 1.0  
Content-type: text/plain; charset=us-ascii

Well we had QRM above and below but I congratulate the checkins for their determination! While not arm-chair copy we communicated quite well proving once again that 5-10 watts SSB is very effective.

|        |         |                |           |     |                 |
|--------|---------|----------------|-----------|-----|-----------------|
| WA10HR | Everett | WINDHAM CT     | IC-756    | 10W | Double-Zepp     |
| N1XTK  | Keith   | TOLLAND CT     | IC-746    | 10W | Inverted V      |
| WR3I   | Dave    | MONROE CT      | FT-817    | 5W  | Carolina Windom |
| AB8DF  | Ed      | WATERFORD MI   | TT Triton |     |                 |
| VE3JC  | John    | London Ontario | K2        | 10W | Dipole          |
| W1CFI  | Paul    | Falmouth MA    | 707       | 10W |                 |
| AA1MY  | Seab    | BETHEL ME      | 706       | 10W | 66' Ex Zepp     |

post net:

|        |      |            |        |
|--------|------|------------|--------|
| K1NAJ  | Norm | NORWAY ME  |        |
| KB1FKM | John | Danbury CT | FT-817 |

I really enjoyed the net last night and was surprised at how well QRP can sneak between the QR0ers.

Hear YOU next week,

Ron - N1ZSW

-----  
Date: Wed, 18 Sep 2002 17:23:00 +0200  
From: Ingo Meyer DK3RED <dk3red@gmx.net>  
To: qrp-1@lehigh.edu  
Subject: [135387] Re: What's scarier than mounting surface mount parts?  
Message-ID: <5.1.1.6.1.20020918172044.009ff7d0@pop.gmx.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hello Mark,

>Why desolder a failed part and risk damaging the PCB or surrounding parts?  
>Just cut the legs of the IC, remove it, then clean off each pad with an iron  
>and some solder wick or vacuum desoldering iron. No sense in spending the  
>time desoldering a part you're going to toss anyway.

your procedure is good for "normal" parts, but have you ever cut the (very small) pins of a surface mounted IC? No chance! ;o)

72/73 de Ingo, DK3RED Don't forget: the fun is the power!

dk3red@t-online.de <http://www.t-online.de/~dk3red>  
DL-QRP-AG #824 <http://www.dl-qrp-ag.de>  
QRP ARCI #11295 <http://www.qrparci.org>

-----  
Date: Wed, 18 Sep 2002 10:28:23 -0500  
From: Lew Paceley <lew@paceley.com>  
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Cc: ki6ds@dospalos.org  
Subject: [135388] Re: Stable VF0's (I spelled it right this time!! Grin)  
Message-ID: <002301c25f28\$06a1e900\$6501a8c0@swbell.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=Windows-1252  
Content-transfer-encoding: 7BIT

Hi Doug,  
The OHR100A I have (30m) is varactor tuned. I believe the OHR500 (5 band) is capacitor tuned.

72/73,  
\*Lew\*  
N5ZE

-----  
Date: Wed, 18 Sep 2002 09:30:44 -0600  
From: "" <markb@abq.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135389] Re: What's scarier than mounting surface mount parts?  
Message-ID: <c2d0b5b3550347f6847c0b4fa3890d25.markb@abq.com>  
MIME-Version: 1.0

Content-type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: quoted-printable

>> Why desolder a failed part and risk damaging the PCB or surrounding parts=  
?

>> Just cut the legs of the IC, remove it,=20

> With some pins as close as they are=2E=2E=2E It is VERY difficult to  
> cut individual pins, unless your bench is equipped with a high  
> power laser to vaporize each lead=2E Cutting is much easier  
> said than done!

This really isn't as impossible to do as you guys are making it=2E  
I made a diagonal cutter that will fit between the legs of an SOIC  
by grinding away the tip a little bit on a bench grinder, so that  
it kind of looks like the nib of a fountain pen=2E No vaporizing  
with high power lasers is necessary=2E I can appreciate the recent post  
about using a dremel tool and a cutting wheel to cut the legs, I've  
never had to go that far but I have cut some of the finer pitch  
legs carefully with an x-acto knife and removed it that way=2E By holding  
the blade close to the body of the part it will make a clean and  
controllable cut by a kind of shearing action=2E SMT is actually much=20  
easier than through hole in many respects, it just takes different=20  
techniques=2E Probably the same growing pains the vacuum tube guys went=20  
through when adapting to solid state=2E

Mark K5LXP  
Albuquerque, NM  
k5lxp@arrl=2Enet

-----  
Date: Wed, 18 Sep 2002 11:35:24 -0400  
From: David Hinerman <WD8CIV@worldnet.att.net>  
To: qrp-l@lehigh.edu  
Subject: [135390] Re: What's scarier than mounting surface mount parts?  
Message-ID: <5.1.0.14.1.20020918113339.00a6dca0@ipostoffice.worldnet.att.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 05:23 PM 9/18/2002 +0200, you wrote:

>Hello Mark,  
>

>>Why desolder a failed part and risk damaging the PCB or surrounding parts?

>>Just cut the legs of the IC, remove it, then clean off each pad with an iron

>>and some solder wick or vacuum desoldering iron. No sense in spending the  
>>time desoldering a part you're going to toss anyway.  
>  
>your procedure is good for "normal" parts, but have you ever cut the (very  
>small) pins of a surface mounted IC? No chance! ;o)

Ingo,

I have done it with a pointy pair of flush cutters. I still ended up  
cutting about 3 leads at once, but it was a part with very fine (.025 inch)  
lead spacing. I was very careful to not tear any of the PC pads, and it worked.

Dave

-----  
I'd rather be thought ignorant than stupid. Ignorance is curable.  
-----

Dave Hinerman  
WD8CIV@worldnet.att.net

-----  
Date: Wed, 18 Sep 2002 11:33:16 -0400  
From: "Mark J. Dulcey" <mark@buttery.org>  
To: bowerm@ix.netcom.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [135391] Re: curtis keyer chip?  
Message-ID: <3D889CBC.4050104@buttery.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Transfer-Encoding: 7bit

Michael Bower N4NMR wrote:

> Hi, folks,  
>  
> At the gaithersburg (Md) hamfast, we picked up an MFJ Econo Keyer that uses  
> the Curtis Keyer chip. The guy said the keyer was fine mechanically and the  
> board but the keyer chip itself was bad. Sure enough, I "borrowed" a curtis  
> chip from one of my other keyers and it then worked.  
>  
> I don't want to permanently remove the chip from my current keyer so I'd  
> like to get a new (replacement) Curtis chip.  
>  
> Are Curtis keyer chips still available anywhere?

MFJ still sells the CK-8045ABM, the last version of the Curtis chip. It's a 28 pin

chip with both A and B modes, speed meter support, and memory. If you have a relatively recent MFJ keyer that uses that chip, you're all set.

The 8045ABM not a drop-in replacement for earlier members of the family. It has more pins: 28, rather than 16, 18, or 20. To use one in place of an earlier chip, you would have to make some sort of adapter board for it, connecting the equivalent lines together.

I found an article online about using the earlier Curtis chips, by Mr. Curtis himself: <http://users.ox.ac.uk/~malcolm/radio/8044screen.pdf>

The ARRL web site has a history of the Curtis keyers and chips: <http://www.arrl.org/news/features/2002/02/04/2/?nc=1>

Also from the ARRL web site: the pinouts of the Curtis chips (not including, alas, the 8045ABM): <http://www.arrl.org/files/info/tech/curtis.txt>

I have had no success at finding pinout information for the 8045ABM online.

-----  
Date: Wed, 18 Sep 2002 11:38:51 -0400  
From: Ed Tanton <n4xy@earthlink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135392] Re: Weights For the "E-Z Hang"  
Message-ID: <5.1.1.6.2.20020918113801.02a68010@pop.earthlink.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

>Slingshots don't shoot car windows, people shoot car windows!

73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY  
189 Pioneer Trail  
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

All emails <IN> & <OUT> checked by  
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;

SEDXC NCDXA GACW QRP-ARCI  
OK-QRP QRP-L #758 K2 (FT) #00057

-----  
Date: Wed, 18 Sep 2002 11:46:42 -0400  
From: David Hinerman <WD8CIV@worldnet.att.net>  
To: qrp-l@lehigh.edu  
Subject: [135393] Re: Weights For the "E-Z Hang"  
Message-ID: <5.1.0.14.1.20020918114516.00a6a3a0@ipostoffice.worldnet.att.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 11:38 AM 9/18/2002 -0400, you wrote:

>>Slingshots don't shoot car windows, people shoot car windows!

Except on US Rt. 23, where dump trucks shoot car windows.

(I had a gravel truck knock a chunk out of my windshield with a dropped pebble there.)

Dave

-----  
I'd rather be thought ignorant than stupid. Ignorance is curable.  
-----

Dave Hinerman  
WD8CIV@worldnet.att.net

-----  
Date: Wed, 18 Sep 2002 10:49:19 -0500  
From: "KD5NWA" <KD5NWA@mbayona.com>  
To: <mark@buttery.org>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135394] RE: Weights For the "E-Z Hang"  
Message-ID: <NGBBJPBAOLKEABLLGGKBCEDACEAA.KD5NWA@MBayona.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Let's outlaw radios, they can be thrown at somebody and hurt them.



Cecil  
KD5NWA

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of Mark J. Dulcey  
Sent: Wednesday, September 18, 2002 10:11 AM  
To: Low Power Amateur Radio Discussion  
Subject: Re: Weights For the "E-Z Hang"

Trevor Jacobs wrote:

>  
> I don't understand why an EZ-Hang would be illegal anywhere. With a little  
> common sense, they are a very effective tool for getting a rope over a  
tree.

Well, the fact is that a slingshot, whether or not it has an attached fishing reel, can be a dangerous weapon. Aim it at the top of a tree for launching antennas, and it's a force for good. Aim it at a car window, or at somebody's eye, and it's a different story. I'm not saying that I favor such laws, but there is some justification for them.

-----  
Date: Wed, 18 Sep 2002 10:03:54 -0600  
From: "" <markb@abq.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [135395] Re: What's scarier than mounting surface mount parts?  
Message-ID: <dd72997a21734a34923973a0d042175d.markb@abq.com>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: quoted-printable

> your procedure is good for "normal" parts, but have you ever cut the (very=  
=20  
> small) pins of a surface mounted IC? No chance! ;o)

Almost daily=2E The "standard" SOIC with 50 mil lead spacings are a no-braine=  
r  
with a pointy diagonal cutter, the =2E5mm (2 leads per mm) pitch can be done too=  
=20  
but it's usually faster with the x-acto knife=2E Most of the boards I work on=  
=20  
are expensive prototype units, the part costs are inconsequential compared t=

O  
the value of the board, and the impact to the project should a PCB get damaged=  
=2E  
The point I'm trying to make is that I do SMT daily (and did through-hole  
for the past two decades) with the same tools you probably already have:  
dental picks, x-acto knife, small soldering iron, solder wick=2E And a jeweler'=  
S  
loupe to read the laser-etched part identifiers on some of the 0402 and 0603  
parts=2E I would suggest that to get some SMT practice just start tearing int=  
O  
a defunct PCB from a laptop computer, CD player or what have you=2E Get the  
feel for what kind of heat it takes to put down and take stuff up, cleaning  
pads with solder wick, etc=2E All it takes is a little experience trying it  
and you'll be a pro in no time=2E SMT is not hard, scary or beyond the abilitie=  
S  
of any ham=2E

Mark K5LXP  
Albuquerque, NM  
k5lxp@arrl=2Enet

-----  
Date: Wed, 18 Sep 2002 09:09:36 -0400  
From: "Rick Tyler" <rp.tyler@worldnet.att.net>  
To: <ki6ds@dospalos.org>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135396] Re: Stable VFO's (I spelled it right this time!! Grin)  
Message-ID: <000201c25f2f\$670cf800\$fee6540c@ricktyle>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
  
The TenTec 1300 series are varactor tuned . . . verified . . . I have three  
of them . . .

(thanks for spelling it right)

73 de Rick, WQ8Q

----- Original Message -----  
From: "Doug Hendricks" <ki6ds@dospalos.org>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Tuesday, September 17, 2002 11:36 PM

Subject: Stable VFO's (I spelled it right this time!! Grin)

> Guys help me out here. What transceiver kits put out in the last 10 years  
> have had varactor tuned VFO's??  
>  
> Here is a list of what I think were. Can somebody help me verify this  
list  
> or add the ones that I have missed. Remember, we are talking varactor  
> tuned, NOT capacitor tuned.  
>  
> SWL40+ Varactor Tuned Verified  
> K1 Varactor Tuned Verified  
> NorCal 40A Varactor Tuned Verified  
> Red Hot 40 Varactor Tuned Verified  
> Roy Gregson's 40 meter version of his transceiver (I suspect this is  
> capacitor tuned. Can anyone verify this for me?)  
> OHR 40 meter rig (I suspect this is capacitor tuned. Can anyone verify  
> this for me?)  
> MFJ Cub Varactor Tuned Verified  
> 2N2/40 Varactor Tuned Verified  
>  
> Thanks for your help. 72, Doug, KI6DS  
>  
>

-----  
Date: Wed, 18 Sep 2002 18:29:39 +0200  
From: Ingo Meyer DK3RED <dk3red@gmx.net>  
To: qrp-l@lehigh.edu  
Subject: [135397] Re: What's scarier than mounting surface mount parts?  
Message-ID: <5.1.1.6.1.20020918182613.00a06250@pop.gmx.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hello Mark and Dave,

>... flush cutters. I still ended up cutting about 3 leads at once, ...

Sounds good. I will buy a smaller cutter and test it on an old computer  
PCB. ;o) But what is with the mechanically stress on the very small solder  
pads/lines? Any problems?

>... SMT is not hard, scary or beyond the abilities  
>of any ham.

I know, because I use also SMT parts. At the time I like only to solder the SMT parts ON the PCB. To re-solder a SMD resistor or so is no problem, but the vision of re-solder such a many-pin-part is a "horror" for me. ;o)

Thanks for your suggestions!

72/73 de Ingo, DK3RED Don't forget: the fun is the power!

dk3red@t-online.de    <http://www.t-online.de/~dk3red>  
DL-QRP-AG    #824    <http://www.dl-qrp-ag.de>  
QRP ARCI #11295    <http://www.qrparci.org>

-----  
Date: Wed, 18 Sep 2002 12:35:14 -0400 (EDT)  
From: Chris Cartwright <ccart@phideaux.com>  
To: QRPL List <qrp-l@lehigh.edu>  
Subject: [135398] Re: Antenna Launching Hints!  
Message-ID: <Pine.LNX.4.33.0209181233540.14062-1000000@dns.phideaux.com.>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Here's one for the arsenal. At field day a few years ago, no slingshot, bow, etc. We ended up filling 20oz soda bottles a third to half full with water, and tying the line on top. Throw it under or overhand, its amazing how accurate it can be, and if it gets hung up or lost the cost is nil. Good for about 50 or 60 feet unleses you're retired from the major leagues. And while I wouldn't want to get hit with one \*again\* (don't ask, and yes it was self inflicted) I only had to pause for a few choice words, and I was back to tree fishing:) Pain could be described as "really smarts" rather than "hurts". Fill one up tonight and go pitch it around the backyard to see what I mean.

72

-- Chris Cartwright,    Unix Administrator |    ccart@phideaux.com    --  
-- N3XRV    ARRL-VE    Norcal Zombie #163    |    Oxford, PA 19363 FM29as    --  
-- MDmW #5 NJ-QRP #105 QRP-L #655 NORCAL #1891 FISTS #5028 QRP-ARCI #9271 --

-----  
Date: Wed, 18 Sep 2002 12:52:18 -0400

From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>  
To: <w4qo@amsat.org>, "qrp-l list" <qrp-l@lehigh.edu>  
Cc: "Alvareztorres, Albert, AA1DO" <aalvareztorres@arrl.org>  
Subject: [135399] RE: Great QRP column by K7SZ  
Message-ID: <721D3436A7C2B344A301FD4A413C71A93D8EDA@kosh.ARRLHQ.ORG>  
content-class: urn:content-classes:message  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable

Contact mweinberg@arrl.org for reprint permission. Tell her what you =  
want permission to use and a brief statement of how it will be used. =  
Permission is almost always given to help clubs and individuals promote =  
various aspects of ham radio.

I will ask our TIS guy to get this month's column up on the ARRL TIS =  
"QRP" web page.

73,=20  
Ed Hare, W1RFI  
ARRL Lab  
225 Main St  
Newington, CT 06111  
Tel: 860-594-0318  
Internet: w1rfi@arrl.org  
Web: <http://www.arrl.org/tis>

> -----Original Message-----

> From: Jim Stafford [mailto:jim@byjimeny.com]

> Sent: Wednesday, September 18, 2002 12:24 PM

> To: qrp-l list

> Subject: QST: Great QRP column by K7SZ

>=20

>=20

> I found this month's (October QST) edition of Rich's QRP Power column=20

> extremely informative. It would make a great piece (with permission)=20

> for any QRP club as a handout at hamfests to "tell who we=20

> are". In the=20

> past, I have found the ARRL to be very accomodating with their=20

> permission if you put a little spot at the bottom telling=20

> where you got=20

> it and how to contact them. You'd have to check with them.

>=20

> Keep up the great work Rich.

>=20

> --=20

> Jim Stafford=20

> Amateur Radio [www.w4qo.com](http://www.w4qo.com)  
> Routing Information [www.routercraft.com](http://www.routercraft.com)  
> Married to: [www.mariquilt.com](http://www.mariquilt.com)  
> 11395 West Road, Roswell, GA 30075  
>=20  
>=20  
>=20

-----  
Date: Wed, 18 Sep 2002 12:50:50 -0400  
From: [kwike@gdls.com](mailto:kwike@gdls.com)  
To: [qrp-1@lehigh.edu](mailto:qrp-1@lehigh.edu)  
Subject: [135400] Re: Antenna Launching Hints!  
Message-ID: <0F8CB05298.41FFF7B6-0N85256C38.005C79B9@gdls.com>  
MIME-Version: 1.0  
Content-type: text/plain; charset=us-ascii

WEAR EYE PROTECTION

-----  
Date: Wed, 18 Sep 2002 12:57:15 -0400  
From: Bruce Muscolino <[w6toy@erols.com](mailto:w6toy@erols.com)>  
To: [qrp-1@lehigh.edu](mailto:qrp-1@lehigh.edu)  
Subject: [135401] Re: What's scarier than mounting surface mount parts?  
Message-ID: <3D88B06B.B49C6BDE@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I'll take a shot. Anyone ever worked with flat pack logic chips? They were very popular in high reliability applications in the late 60's and 70's. They were a small flat package with 8 leads sticking out! Size was about 3/8 ths square!

73

-----  
Date: Wed, 18 Sep 2002 13:00:35 -0400  
From: Bruce Muscolino <[w6toy@erols.com](mailto:w6toy@erols.com)>  
To: unlisted-recipients;; (no To-header on input)  
Cc: Low Power Amateur Radio Discussion <[qrp-1@lehigh.edu](mailto:qrp-1@lehigh.edu)>  
Subject: [135402] Re: Antenna Launching Hints!  
Message-ID: <3D88B133.1CD27982@erols.com>

MIME-Version: 1.0  
Content-Type: text/plain; charset=iso-8859-1  
Content-Transfer-Encoding: 8bit

Another idea that gets forgotten is to use a fishing bow. These are intended to hunt fish so the arrow is attach to a reel and line. They can be found at many gun shops.

73

-----  
Date: Wed, 18 Sep 2002 10:08:53 -0700  
From: Mark Schoonover <schoon@amgt.com>  
To: "'kwike@gdls.com'" <kwike@gdls.com>,  
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135403] RE: Antenna Launching Hints!  
Message-ID: <BF889CEBEFD2D511B993009027F60ABE25180F@AG-JASMINE-NT4>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

And a hard hat! I've had the reel snarl and have the lead weight come flying back at my noggin from about 20' out. That crosses the line of smarts - it damn well hurts to get hit with a 2 oz weight!!

72

.mark

> -----Original Message-----  
> From: kwike@gdls.com [mailto:kwike@gdls.com]  
> Sent: Wednesday, September 18, 2002 9:51 AM  
> To: Low Power Amateur Radio Discussion  
> Subject: Re: Antenna Launching Hints!  
>  
>  
>  
> WEAR EYE PROTECTION  
>  
>

-----  
Date: Wed, 18 Sep 2002 13:20:48 -0400  
From: Garey Barrell <k4oah@mindspring.com>

To: w6toy@erols.com,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135404] Re: What's scarier than mounting surface mount parts?  
Message-ID: <5.1.0.14.0.20020918131837.00a31cf0@pop.mindspring.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Bruce -

Yep. Some even had heat sink studs out of the bottom of the package!

Motorola MECL II and III.

73, Garey - K40AH  
Atlanta

At 12:57 PM 9/18/2002, Bruce Muscolino wrote:  
>I'll take a shot. Anyone ever worked with flat pack logic chips? They  
>were very popular in high reliability applications in the late 60's and  
>70's. They were a small flat package with 8 leads sticking out! Size  
>was about 3/8 ths square!  
>  
>73

-----  
Date: Wed, 18 Sep 2002 12:20:08 -0500  
From: "David Bixler" <qrp@netins.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135405] FSQRP Wednesday Warble  
Message-ID: <007201c25f37\$a322c4c0\$e915b9cc@Host>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi gang:

The Four State QRP Group will have some PSK activity tonight  
on about 3580.5 KHz. If you are in range of our signals, stop by  
and say howdy around 9 PM central time.

This is NOT a net, just an informal roundtable. No net-control  
station, no one calls the roll, just some on-the-air QRP fun.  
Time to dust off those Warblers and give it a try tonight!

If you hear us, just jump in there in between transmissions.



We will drag our feet for breakers.

72, Dave

David Bixler                      W0CH  
Seneca, Missouri

Four State QRP Group    <http://w0ch.com/fsqrp>  
QRP Web Site Main:      <http://w0ch.com>

QRP: Little radios, big fun!

-----  
Date: Wed, 18 Sep 2002 13:37:24 -0400  
From: Jim Stafford <jim@byjimeny.com>  
To: qrp-l list <qrp-l@lehigh.edu>  
Subject: [135406] QST: Great QRP Power by K7SZ  
Message-ID: <3D88B9D4.2080608@byjimeny.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Transfer-Encoding: 7bit

I found this month's (October QST) edition of Rich's QRP Power column extremely informative. It would make a great piece (with permission) for any QRP club as a handout at hamfests to "tell who we are". In the past, I have found the ARRL to be very accomodating with their permission if you put a little spot at the bottom telling where you got it and how to contact them. You'd have to check with them.

Keep up the great work Rich.

--  
Jim Stafford  
w4qo@amsat.org or jim@byjimeny.com  
Amateur Radio [www.w4qo.com](http://www.w4qo.com)  
Routing Information [www.routercraft.com](http://www.routercraft.com)  
Married to: [www.mariquilt.com](http://www.mariquilt.com)  
11395 West Road, Roswell, GA 30075

-----  
Date: Wed, 18 Sep 2002 12:43:43 -0500  
From: "Tim, N9PUZ" <n9puz@arrl.net>

To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135407] Re: Antenna Launching Hints!  
Message-ID: <200209181738.MAA19963@zinc.eosinc.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: quoted-printable

On Wed, 18 Sep 2002 12:35:14 -0400 (EDT), Chris Cartwright=  
wrote:

>  
>Here's one for the arsenal. =A0 At field day a few years ago, no  
>slingshot, bow, etc. =A0We ended up filling 20oz soda bottles a=  
third  
>to half full with water, and tying the line on top. =A0Throw it=  
under

I have used a slight variation of this as well. If you use a=  
decent sized line on the bottle you can, with just a little=  
practice, swing the bottle by the line and get a lot of height=  
with minimum effort. Just swing the bottle in a plane at right=  
angles to the ground and release at the appropriate point.=  
Voila!

It's a good idea to practice the technique out in the open a few=  
times.

Tim, N9PUZ  
<http://www.qsl.net/n9puz>

-----  
Date: Wed, 18 Sep 2002 13:44:20 -0400  
From: Bruce Muscolino <w6toy@erols.com>  
To: Garey Barrell <k4oah@mindspring.com>  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135408] Re: What's scarier than mounting surface mount parts?  
Message-ID: <3D88BB74.8AA71532@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Well, the ones I was referring to were the TI 5400 aeries. They were  
used in our L-1011 autopilots. They were considered the most reliable  
around!

-----  
Date: Wed, 18 Sep 2002 14:09:11 -0400  
From: "Juan Ferrari" <puntrad@usa.net>  
To: <qrp-1@lehigh.edu>  
Subject: [135409] Re: Stable VFO's (I spelled it right this time!! Grin)  
Message-ID: <00f901c25f3e\$84cc7c80\$ea01410c@default>

Doug,  
The kits from Steve Weber (Melt Solder), MS-15 and MS-30 were varactor  
tuned.  
72  
Juan - KG4FSN

-----  
Date: Wed, 18 Sep 2002 14:12:52 -0400  
From: "Jim" <ku4qw@yahoo.com>  
To: <qrp-1@lehigh.edu>  
Subject: [135410] Re: My Old Argonaut 509 (very long)  
Message-ID: <000301c25f3f\$0113d310\$0100000a@jim>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I have never unstood the attraction of TenTec rigs, I've had a 509, 556, and  
555 couldn't stand a one of them. I think it was the PTO that turned me  
off, couldn't get into that constent drift that all 3 of my tentec radios  
had.

People talk about great service through TenTec, there again, I didn't get  
good service. When I needed help fixing my PTO on my 509, they told me on  
the phone that it wasn't worth fixing and they didn't really have any parts  
or PTO rebuild kits to help me out and that I should just cut my losses.  
That is when I gave up on TenTec. But even after that I've build some of  
their kits, those are fun.

I'm not saying they are junk, and I'm not saying you shouldn't love them,  
but I live 25 minutes from the factory and I just don't like them. Maybe  
the new radio, I think it now has a VFO instead of a PTO that would be fine  
I'm sure.

Nice story still, I love to use old gear, I've just ordered me a Yaesu FT-7  
and can't wait to get it in, I'll put the FT-817 aside and all the homebrew

stuff and play with an old rig for awhile.

72 es cul,

Jim - KU4QW

Buy a Ten Tec - SUPPORT Tennessee!!! <---in hopes the tentec lovers won't  
flame to hard

-----  
Date: Wed, 18 Sep 2002 14:25:35 -0400  
From: "Charles W3KC" <w3kc@starpower.net>  
To: <qrp-l@lehigh.edu>  
Subject: [135411] Re: Antenna Launching Hints  
Message-ID: <008301c25f40\$e3d49260\$ea112c42@w3kc>

In the past I have used a drilled through baseball or my surf fishing rod with a lead sinker. My main tool now is an extendable bass fishing pole that I have attached to a Home Depot (or Lowes) extendable paint pole. On a calm day, carefully holding it vertical, I can extend it and drop a sinker and monofilament line over a tree branch at heights over 33 ft. Standing on a step ladder I can go higher. I like this way because it puts the line over exactly the branch I want and the sinker drops straight down- and I don't have to worry about breaking the neighbors window. I then pull a rope up and use marine grade pulleys and weights to keep the antenna taut. I run the rope through a short piece of thick rubber garden hose in order to protect the tree branch where the stationary rope holding the pulley rests.

72 de Chas W3KC

-----  
Date: Wed, 18 Sep 2002 14:19:33 -0400  
From: David Hinerman <WD8CIV@worldnet.att.net>  
To: qrp-l@lehigh.edu  
Subject: [135412] Re: What's scarier than mounting surface mount parts?  
Message-ID: <5.1.0.14.1.20020918141620.00a7cec0@ipostoffice.worldnet.att.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 06:29 PM 9/18/2002 +0200, you wrote:

>Hello Mark and Dave,

>  
>>... flush cutters. I still ended up cutting about 3 leads at once, ...  
>  
>Sounds good. I will buy a smaller cutter and test it on an old computer  
>PCB. ;o) But what is with the mechanical stress on the very small solder  
>pads/lines? Any problems?

Ingo,

With a little care there will be no problem. In my case I was cutting leads on a part that was very close to another component, and I could not hold the cutter almost parallel with the part. I had to point the cutter down at an almost vertical angle. I was afraid the force of the cutter would bend the leads and tear the copper pads before cutting, but it didn't.

Cutting one lead at a time will prevent this.

Dave

-----  
Electrical items never die, you see, I am merely unable to revive them with today's technology.  
-----

Dave Hinerman  
WD8CIV@worldnet.att.net

-----  
Date: Wed, 18 Sep 2002 14:19:52 -0400  
From: "Ronald A Pfeiffer" <Ronald\_A\_Pfeiffer@raytheon.com>  
To: qrp-l@lehigh.edu  
Subject: [135413] FS: original NJQRP SMK-1 enclosure kit unbuilt with decal  
Message-ID: <0F612A1E87.5AF1F32A-0N85256C38.00648A59@and.us.ray.com>  
MIME-Version: 1.0  
Content-type: text/plain; charset=us-ascii

See at <http://www.njqrp.org/smk-1/index.html>

Asking \$12 shipped to you in CONUS.

Ron - N1ZSW

-----

Date: Wed, 18 Sep 2002 15:22:52 -0400  
From: W2AGN <w2agn@w2agn.net>  
To: ku4qw@yahoo.com,  
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135414] Re: My Old Argonaut 509 (very long)  
Message-ID: <3D889A4C.31968.1584763B@localhost>  
MIME-version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Content-description: Mail message body

On 18 Sep 2002 at 14:12, Jim wrote:

>  
> People talk about great service through TenTec, there again, I didn't get  
> good service. When I needed help fixing my PTO on my 509, they told me on  
> the phone that it wasn't worth fixing and they didn't really have any parts  
> or PTO rebuild kits to help me out and that I should just cut my losses.  
> That is when I gave up on TenTec. But even after that I've build some of  
> their kits, those are fun.  
>

I find that very odd. A few years ago, I needed parts for my old Argo 505 VF0. No problem, they even sent me a dial cord kit free. Then a while ago, I purchased an FM

board for my Paragon (on eBay, blush). . It didn't work at all, and I found the main IC on the board, which is really an FM receiver chip, was bad. I called and asked if they

had one, and sure enough, they did. I asked how much, and they said, it's OK, just give your address...they sent it free, Now you can't beat service like that. Ten Tec and

Elecraft have the BEST customer service of anyone, not just Ham Radio outfits, that I have ever encountered!

My only complaint...I wish they would hurry up and ship the Argo V!!

--

/ \ / \ / \ / \ / \ John L. Sielke  
( W )( 2 )( A )( G )( N ) <http://www.w2agn.net>  
 \\_ / \\_ / \\_ / \\_ / \\_ / QRP/ARCI, NJQRP, ARQrp, GQRP, RSGB  
Ex- K3HLU, W7JEF, W4MPC, N4JS

-----  
Date: Wed, 18 Sep 2002 15:24:01 -0400  
From: "Steve Blary" <steve@eclipsecat.com>

To: <Ronald\_A\_Pfeiffer@raytheon.com>,  
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [135415] OT -- Radio Frequency Spectrum Chart needed  
Message-ID: <PPEIIGOHKOAKJAPHAODHEEPPDLAA.steve@eclipsecat.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="us-ascii"  
Content-Transfer-Encoding: 7bit

If any one on the list can help with this .... THANKS!  
72's  
Steve Blary, N1XC

In a message dated 9/18/2002 11:17:00 AM Central Daylight Time,  
jwolfgang@arrl.org writes:

Since the Radio Frequency Spectrum Chart is not printed correctly in  
the new edition of the Radio Merit Badge Book, I have been looking  
for a new chart that I can put at the ARRL site for scout/hams to  
download.

The only one I have found is from the FCC and that has much more  
information than we need. If anyone has the Radio Frequency Spectrum  
Chart (similiar to the one in the old RMB Book) in electronic format,  
please send it to me at jwolfgang@arrl.org. I will get it on the web.

-----  
Date: Wed, 18 Sep 2002 15:54:12 -0400  
From: JLeroy@automationdirect.com  
To: qrp-1@lehigh.edu  
Subject: [135416] Re: My Old Argonaut 509 (very long)  
Message-ID: <CA45D4785D15D411B3B20060971D957101454E31@srv-  
mail01.automationdirect.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

I lived in TN from the late 70's through the early 90's, and was dismayed to  
get a cold reception at Ten-Tec during a few weekday trips to the factory.  
But I knew a couple of the guys working there, and it was apparent from  
conversations with them that TT was making its living from more than ham  
radio gear. I am glad to see them re-engaging with the ham community. A pity  
they apparently had to dump the distributors to make enough margin to have a  
profitable ham gear business, but I think they always got second-best

treatment from the distributors anyway. I plan to make the trek from Georgia to the TT hamfest this month and see what's cookin'.

73,  
John W4JKL

Oh yes, and I'm still waiting for my Argo V too.

-----  
Date: Wed, 18 Sep 2002 15:14:54 -0500  
From: "Stuart Rohre" <rohre@arlut.utexas.edu>  
To: "Karl Kanalz" <kkanalz@gcecis.com>, <qrp-1@lehigh.edu>  
Subject: [135417] Re: Magnetic shielding for vfo's  
Message-ID: <001801c25f50\$0d58eff0\$4e100a0a@rohredt2000>

Thanks Karl, guess the profit line got to them, and they went to cheaper alloy.  
Of course, they were anxious to sell them for airborne use, to Gen. LeMay for SAC SSB radios. Weight issues might have been also a factor.  
Early Collins like a lot of early radios had plenty of "Iron".  
73,  
Stuart

-----  
Date: Wed, 18 Sep 2002 16:17:43 -0400  
From: "Steve Blary" <steve@eclipsecat.com>  
To: <steve@eclipsecat.com>,  
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [135418] RE: OT -- Radio Frequency Spectrum Chart needed  
Message-ID: <PPEIIGOHKOAKJAPHAODHIEAADMAA.steve@eclipsecat.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="us-ascii"  
Content-Transfer-Encoding: 7bit

maybe I should be more specific <G> looking for some thing that will meet the below requirments.

Draw a chart of the electromagnetic spectrum covering 100 kilohertz (kHz) to 1000 megahertz (MHz).  
Label the MF, HF, VHF, UHF, and microwave portions of the spectrum on your diagram.



Locate on your chart at least eight radio services such as AM and FM commercial broadcast, CB, television, amateur radio (at least four ham radio bands), and police.

Thanks Again!

> -----Original Message-----

> From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of

> Steve Blary

> Sent: Wednesday, September 18, 2002 3:24 PM

> To: Low Power Amateur Radio Discussion

> Subject: OT -- Radio Frequency Spectrum Chart needed

>

>

> If any one on the list can help with this .... THANKS!

> 72's

> Steve Blary, N1XC

>

>

> In a message dated 9/18/2002 11:17:00 AM Central Daylight Time,

> jwolfgang@arrl.org writes:

>

> Since the Radio Frequency Spectrum Chart is not printed correctly in

> the new edition of the Radio Merit Badge Book, I have been looking

> for a new chart that I can put at the ARRL site for scout/hams to

> download.

> The only one I have found is from the FCC and that has much more

> information than we need. If anyone has the Radio Frequency Spectrum

> Chart (similiar to the one in the old RMB Book) in electronic format,

> please send it to me at jwolfgang@arrl.org. I will get it on the web.

>

>

>

-----

Date: Wed, 18 Sep 2002 16:22:42 -0400

From: "Ed Kessler" <aa3sj@arrl.net>

To: qrp-l@lehigh.edu

Subject: [135419] FOR SALE TEN-TEC PM2A, AC4, ARGONAUT 2

Message-ID: <3D88A852.10705.3FB878F@localhost>

MIME-Version: 1.0

Content-type: text/plain; charset=US-ASCII

Content-transfer-encoding: 7BIT

Content-description: Mail message body

Good Afternoon,

I am posting these items for a friend of mine and can verify that they are both in excellent working condition. We checked them out on the air last evening. The PM2A is the cleanest one that I've seen.

For Sale:

Ten-Tec PM2A xcvr and AC-4 SWR meter. PM2A is in very good condition with original box, manual, warranty card and tuning tools. AC-4 SWR meter is in very good condition except for dull paint but no scratches on the top cover. Both items work well.  
\$150 plus shipping

Ten-Tec Argonaut 2 with manual and power cord. In very good condition except for scratches on the top cover. Just installed a new backlight. A spare backlight strip is included.  
\$575 plus shipping

Photos of these rigs can be seen at the link below:

[www.QSL.net/aa3sj/ForSale.html](http://www.QSL.net/aa3sj/ForSale.html)

Please contact me if interested.

73

Ed AA3SJ

-----  
Date: Wed, 18 Sep 2002 15:22:54 -0500  
From: "Stuart Rohre" <rohre@arlut.utexas.edu>  
To: "Bill Coleman" <aa4lr@arrl.net>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135420] Re: The center fed 88 foot dipole (or doublet)  
Message-ID: <002e01c25f51\$2b8d37a0\$4e100a0a@rohredt2000>

Bill, since I hardly get above 20m, Cebik's 88 footer was my "all bands"  
Sorry for not clarifying that.  
72,  
Stuart K5KVH

-----  
Date: Wed, 18 Sep 2002 19:34:03 +0100  
From: "M.J.Powell" <mike@pickmere.demon.co.uk>

To: n9puz@arrl.net  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135421] Re: Antenna Launching Hints!  
Message-ID: <0Z4PMNBbcMi9Ewa3@pickmere.demon.co.uk>  
MIME-Version: 1.0  
Content-Transfer-Encoding: 8bit  
Content-Type: text/plain; charset=iso-8859-1

In message <200209181738.MAA19963@zinc.eosinc.com>, Tim, N9PUZ  
<n9puz@arrl.net> writes

>On Wed, 18 Sep 2002 12:35:14 -0400 (EDT), Chris Cartwright wrote:

>>

>>Here's one for the arsenal. At field day a few years ago, no  
>>slingshot, bow, etc. We ended up filling 20oz soda bottles a third  
>>to half full with water, and tying the line on top. Throw it under  
>

>I have used a slight variation of this as well. If you use a decent sized line  
>on the bottle you can, with just a little practice, swing the bottle by the line  
>and get a lot of height with minimum effort. Just swing the bottle in a plane at  
>right angles to the ground and release at the appropriate point. Voila!  
>

>It's a good idea to practice the technique out in the open a few times.

Remember! Release on the up-swing not the down-swing!

Mike

--

M.J.Powell

-----  
Date: Wed, 18 Sep 2002 16:36:22 -0400 (EDT)  
From: Thom LaCosta <baltimoremd@baltimoremd.com>  
To: Ed Tanton <n4xy@earthlink.net>  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135422] Re: Weights For the "E-Z Hang"  
Message-ID: <20020918163506.W53251-1000000@unix1.vhost.min.net>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 18 Sep 2002, Ed Tanton wrote:

>

> >Slingshots don't shoot car windows, people shoot car windows!

But, But, that would mean people would have to accept the concept of  
personal accountability/responsibility.

Thom

baltimoremd@baltimoremd.com  
<http://www.baltimoremd.com/>  
<http://www.baltimorehon.com/>  
<http://www.zerobeat.net>

Thom LaCosta K3HRN Webmaster  
Baltimore's Home Page  
Home of the Baltimore Lexicon  
Home of The QRP Web Ring  
and Drake Mail List Pages

-----  
Date: Wed, 18 Sep 2002 13:48:44 -0700  
From: Mark Schoonover <schoon@amgt.com>  
To: "'steve@eclipsecat.com'" <steve@eclipsecat.com>,  
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135423] RE: OT -- Radio Frequency Spectrum Chart needed  
Message-ID: <BF889CEBEFD2D511B993009027F60ABE251812@AG-JASMINE-NT4>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

IIRC, you can get it for free from the FCC website... A google might help here...

72

.mark

> -----Original Message-----  
> From: Steve Blary [mailto:steve@eclipsecat.com]  
> Sent: Wednesday, September 18, 2002 1:18 PM  
> To: Low Power Amateur Radio Discussion  
> Subject: RE: OT -- Radio Frequency Spectrum Chart needed  
>  
>  
> maybe I should be more specific <G> looking for some thing  
> that will meet  
> the below requirments.  
>  
> Draw a chart of the electromagnetic spectrum covering 100  
> kilohertz (kHz) to  
> 1000 megahertz (MHz).  
> Label the MF, HF, VHF, UHF, and microwave portions of the  
> spectrum on your  
> diagram.  
> Locate on your chart at least eight radio services such as AM and FM  
> commercial broadcast, CB, television, amateur radio (at least  
> four ham radio

> bands), and police.  
>  
> Thanks Again!  
>  
> > -----Original Message-----  
> > From: owner-qrp-l@Lehigh.EDU  
> > [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of  
> > Steve Blary  
> > Sent: Wednesday, September 18, 2002 3:24 PM  
> > To: Low Power Amateur Radio Discussion  
> > Subject: OT -- Radio Frequency Spectrum Chart needed  
> >  
> >  
> > If any one on the list can help with this .... THANKS!  
> > 72's  
> > Steve Blary, N1XC  
> >  
> >  
> > In a message dated 9/18/2002 11:17:00 AM Central Daylight Time,  
> > jwolfgang@arrl.org writes:  
> >  
> > Since the Radio Frequency Spectrum Chart is not printed correctly in  
> > the new edition of the Radio Merit Badge Book, I have been looking  
> > for a new chart that I can put at the ARRL site for scout/hams to  
> > download.  
> > The only one I have found is from the FCC and that has much more  
> > information than we need. If anyone has the Radio  
> Frequency Spectrum  
> > Chart (similiar to the one in the old RMB Book) in  
> electronic format,  
> > please send it to me at jwolfgang@arrl.org. I will get it  
> on the web.  
> >  
> >  
> >  
>  
>

-----  
Date: 18 Sep 2002 14:35:39 -0700  
From: "Alan Fryer" <N3BJ@hotmail.com>  
To: qrp-l@lehigh.edu  
Subject: [135424] WTB: Heathkit HX20 or MT-1  
Message-ID: <OE18eeFUtLch9wPiyAp0000260e@hotmail.com>

Date: Wed, 18 Sep 2002 21:35:38 +0000

X-Mailer: Gopher King 1.91 - MAPSATONMAPSATON

Maybe a long shot, but wonder if anyone on the list has a Heathkit HX20 or MT-1 (Cheyenne) transmitter that is not being used. Putting together a vintage QRP CW station. Believe I have located a Drake 2B from a list member, now looking for the TX. Might consider other transmitters, too. Non-working or problem rig OK, as long as it's intact and in reasonable shape.

Please let me know what you have.

Alan, N3BJ  
Bent Mountain, VA

-----  
Date: Wed, 18 Sep 2002 17:39:31 -0400  
From: Bruce Muscolino <w6toy@erols.com>  
To: JLeroy@automationdirect.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [135425] Re: My Old Argonaut 509 (very long)  
Message-ID: <3D88F293.9449BB8C@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Oh gosh, you should have tried to get into see Collins back in the 70"s. They were friendly, but not hospitable to a casual visitor. There are almost NO radio companies who make their entire living from ham radio.

I know for a fact that if Ten Tec was not doing government contracts they would probably not be in business. Collins was in the commercial and military radio market as well as many others. When I visited them they had a ham radio presence in their lobby, a KWS-1, but I was there on the L1011 autopilot. They have a responsibility to their paying customers! Every time an unannounced visitor shows up at the door they must assign a Marketing rep to talk to him. The rep may have a hundred other jobs waiting. You might have done better if you called first!

73

-----  
Date: Wed, 18 Sep 2002 14:42:29 -0700  
From: Marv Fagenson <k6hcgj@juno.com>  
To: qrp-l@lehigh.edu  
Subject: [135426] Ten Tec KR 5 Keyer

Message-ID: <20020918.144231.-377305.0.k6hcj@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

Gee, w/ all the Argo talk lately, does anyone have a schematic of the KR5 keyer. I need to replace the "off board" components in 6/12 vdc and I dont know the values. Any help is appreciated. Tnx, 72  
Marv Fagenson  
k6hcj@Juno.com

-----  
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-----  
Date: Wed, 18 Sep 2002 17:44:52 -0400  
From: "Winston F. Jones" <winjones@ix.netcom.com>  
To: <JLeroy@automationdirect.com>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135427] Re: My Old Argonaut 509 (very long)  
Message-ID: <009f01c25f5c\$a51f0a20\$e127c043@winston>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Thank goodness Ten-Tec has that other business to keep them afloat!! I doubt that any manufacturer can make it today on ham radio business alone. It's nice that Ten-Tec can keep turning out modern rigs such as the Jupiter and Orion. Any Ten-Tec rig is worth waiting for.  
73, Winston K4CWQ

----- Original Message -----  
From: <JLeroy@automationdirect.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Wednesday, September 18, 2002 15:54 PM  
Subject: Re: My Old Argonaut 509 (very long)

> I lived in TN from the late 70's through the early 90's, and was dismayed to  
> get a cold reception at Ten-Tec during a few weekday trips to the factory.  
> But I knew a couple of the guys working there, and it was apparent from

> conversations with them that TT was making its living from more than ham  
> radio gear. I am glad to see them re-engaging with the ham community. A  
pity  
> they apparently had to dump the distributors to make enough margin to have  
a  
> profitable ham gear business, but I think they always got second-best  
> treatment from the distributors anyway. I plan to make the trek from  
Georgia  
> to the TT hamfest this month and see what's cookin'.  
>  
> 73,  
> John W4JKL  
>  
> Oh yes, and I'm still waiting for my Argo V too.  
>  
>

-----  
Date: Wed, 18 Sep 2002 16:45:14 -0500  
From: "Stuart Rohre" <rohre@arlut.utexas.edu>  
To: <qrp-l@lehigh.edu>  
Subject: [135428] Fw: forward from GQRP list for Paul Harden  
Message-ID: <002e01c25f5c\$aba0fe80\$4e100a0a@rohredt2000>

Pardon the BW,  
----- Original Message -----  
Subject: forward from GQRP list

>  
> From: Erkki Suikki <oh1lv@kotilo.saunalahti.fi>  
> Subject: NA5N ?  
>  
> Hello, gang...  
> I need a contact with NA5N, Mr. Paul Harden, but  
> his old e-mail ads (na5n@rt66.com) raiseth not, but  
> bounceth back to my Eudora lite. Now, if you OM  
> Paul reads this, tell me your e-mail ads?  
> 73 all, Erkki GQRP club member 4390 :-)

-----  
Date: Wed, 18 Sep 2002 16:59:07 -0500  
From: "Stuart Rohre" <rohre@arlut.utexas.edu>



To: "John R Kirby" <n3aaz-qrp@juno.com>, <qrp-1@lehigh.edu>  
Subject: [135429] razor blade and galena detectors  
Message-ID: <004401c25f5e\$9ca2ba70\$4e100a0a@rohredt2000>

I think the galena has to have a light touch by the probe, to avoid breaking thru the surface oxide layer and shorting it out.

One of the Cub Scout manuals or an early radio book I had, showed the fox hole radio razor blade probe being an opened up safety pin with a graphite pencil lead wired to its tip, so that the pencil lead touched the razor blade "sweet spot".

I clearly remember the diagram, but had my Dad's 1920's crystal set with cat's whisker, glass cylinder and galena holder in a cup. Try as I would, I never heard a station on that radio. Not until my General Class days did it dawn on me that the coil on that radio was far too small to tune the AM band of today since it did not have a capacitor across the coil! In fact, I doubt Dad ever got much very far from a local station. Unfortunately, the other thing on his set that was missing was the original head phones. But, I had acquired a single phone one tube radio, so I was able to use that 1000 ohm phone.

Now I have a Viet Nam era Field Strength meter, and have found that I can pick up short wave stations using it as a crystal set, by clipping its whip antenna to the center of my coax feeding the all band vertical dipole. I use the 15,000 ohm Korean War vintage head phones for that. (HS 32?)  
72, Stuart K5KVH

-----  
Date: Wed, 18 Sep 2002 17:08:13 -0500  
From: "Stuart Rohre" <rohre@arlut.utexas.edu>  
To: <kr1st@amsat.org>, <qrp-1@lehigh.edu>  
Subject: [135430] wire to insulator  
Message-ID: <007401c25f5f\$e2053880\$4e100a0a@rohredt2000>

Just loop wire thru insulators. The wire tie will go bad in the sun in a short time, even if it is black, which is the only color tie to use outdoors. The size of that loop thru the insulator and an overhand knot are very small in size re the wave length of any antenna for HF.  
73, Stuart K5KVH

-----

Date: Wed, 18 Sep 2002 17:46:15 -0400  
From: Rick McKee <kc8aon@juno.com>  
To: qrp-l@lehigh.edu  
Subject: [135431] Re: QRPvs.QR0  
Message-ID: <20020918.180502.9014.4.kc8aon@juno.com>

On Wed, 18 Sep 2002 07:47:53 -0400 Bruce Muscolino <w6toy@erols.com>  
writes:>  
. Otherwise, why did the military invest so heavily in Collins rigs for  
MARS use?

SIMPLE - DEPENDABILITY !

72/73 DE: [K] [C] [8] [A] [0] [N]  
Rick McKee  
Willow Wood, Ohio  
QRP- do more with less !  
QRP-L #2112, FPqrp #33, AR QRP #269

---

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-----  
Date: Wed, 18 Sep 2002 17:43:26 -0400  
From: Rick McKee <kc8aon@juno.com>  
To: qrp-l@lehigh.edu  
Subject: [135432] Re: Used EZ-Hang or Equivalent Device  
Message-ID: <20020918.180502.9014.3.kc8aon@juno.com>

On Wed, 18 Sep 2002 07:31:17 -0400 Bruce Muscolino <w6toy@erols.com>  
writes:  
>Many localities prohibit slingshots for safety reasons.

Then why not prohibit ball bats, golf clubs, knitting needles, sharp  
pointed scissors,  
SHEEEEEEESE ! where will the commies stop ?

72/73 DE: [K] [C] [8] [A] [0] [N]  
Rick McKee  
Willow Wood, Ohio  
QRP- do more with less !

QRP-L #2112, FPqrp #33, AR QRP #269

-----  
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-----  
Date: Wed, 18 Sep 2002 18:11:44 -0400

From: "Mike Yetsko" <myetsko@insydesw.com>

To: <jnewell@attbi.com>,

"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>

Subject: [135433] Re: Used EZ-Hang or Equivalent Device

Message-ID: <007601c25f60\$7744ec60\$0300a8c0@charter.net>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

----- Original Message -----

From: "John O. Newell" <jnewell@attbi.com>

> To respond to an earlier post, my recollection is that  
> slingshots are illegal to sell in Massachusetts, but not  
> to own or use. So, you can mailorder them, or hop up to NH  
> or down to CT.  
>  
> John Newell KB1FPM

The last I was able to establish...

Slingshots were a "PROHIBITED WEAPON" in Mass. However  
that was under the old gun laws. Which have mostly been  
superceded by what's called (I think) '480'. I searched the new law  
for references to slingshots and was not able to find any references.

BUT... That does NOT mean slingshots are no longer a prohibited  
weapon.

I have, as yet, been unable to determine if the relevant parts of the old  
law were REPLACED by 480 (which would seem to indicate the  
prohibition was no longer in effect) or if the old law still was in place.

I make no claims one way or the other. Your mileage may vary.

Mike

-----  
Date: Wed, 18 Sep 2002 18:16:38 -0400  
From: "Mike Yetsko" <myetsko@insydesw.com>  
To: <markb@abq.com>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135434] Re: What's scarier than mounting surface mount parts?  
Message-ID: <008a01c25f61\$112ca480\$0300a8c0@charter.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

From: <markb@abq.com>

> Why desolder a failed part and risk damaging the PCB or surrounding  
parts?  
> Just cut the legs of the IC, remove it, then clean off each pad with an  
iron  
> and some solder wick or vacuum desoldering iron. No sense in spending  
the  
> time desoldering a part you're going to toss anyway.  
>  
> Mark K5LXP

Depends if you have the tools, or really, the appropriate tools.

I have a heat gun, and it's easier and safer for me to take off a 100 pin  
surface mount CPU with it than it is to cut or whatever. Heat guns work  
best on surface mount. They're not that good on through-hole.

Cutting out is NOT always the safest way to go, but to the average  
home hobbyist, it's hard to beat.

But you are correct in attitude. You already suspect the part is bad,  
why risk the PCB at all!

Mike

-----

Date: Wed, 18 Sep 2002 17:19:34 -0500  
From: "Stuart Rohre" <rohre@arlut.utexas.edu>  
To: "David Hinerman" <WD8CIV@worldnet.att.net>, <qrp-1@lehigh.edu>  
Subject: [135435] VFO test, tuna cans here are aluminum, not magnetically shielded  
Message-ID: <007c01c25f61\$77cee770\$4e100a0a@rohredt2000>

If you are not going to be around any magnetic, or 60 Hz fields, aluminum would work. I had considered a tuna can, but ones I find here are aluminum. I think I had seen similar short cans with standard tin plate steel, but none were in my collection of enclosures. With the no. 2 can or steel short can, you still have the problem of RF tight seal. The use of the cans for candy that have tight sealing swage on lids seems desirable, and then the Altoids lid seems to snap on pretty well, unless you have distorted it in a pocket for a long time.

One of the joys of QRP construction was to go to the import stores, tobacco counters, and candy counters and see what enclosures never thought of for radio, might turn up. But since I gave up smoking, my enclosures have tended to be from the Altoids family, and other candies. Good hunting grounds used to be Pier One Imports, but now I find most of the tins in places like World Market, Walgreens, or Eckard Drug stores. However, do not overlook the chain department stores especially the watch departments. The marketing ploy for last couple of years has been cheap watches in either Tin box or other cute enclosure. Some have been plastic, but I even got a felt lined wood box with hinged cover with a wallet, and plan on building something antique QRP into that!  
72, Stuart K5KVH

-----  
Date: Wed, 18 Sep 2002 18:21:23 -0400  
From: "Mike Yetsko" <myetsko@insydesw.com>  
To: <dk3red@gmx.net>,  
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [135436] Re: What's scarier than mounting surface mount parts?  
Message-ID: <00aa01c25f61\$c08c93e0\$0300a8c0@charter.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

----- Original Message -----

From: "Ingo Meyer DK3RED" <dk3red@gmx.net>

>

> your procedure is good for "normal" parts, but have you ever cut the

(very  
> small) pins of a surface mounted IC? No chance! ;o)  
>  
> 72/73 de Ingo, DK3RED Don't forget: the fun is the power!

For the home hobbyist, there's a kit called a 'chipquick' kit. I have a few of them here, from different manufactures. They seem to be slightly different, but they all seem to work on the same principle.

It looks like solder, but in fact it's a material that ALLOYS with solder and lowers it's melting point so low parts can be taken off with a hair dryer.

Basically you 'touch up' the solder with 'this' solder, and usually just the residual heat means the part is sitting there loose. Clean up the board with wick and you're ready for the new part to be put down.

Mike

-----  
Date: Wed, 18 Sep 2002 18:28:19 -0400  
From: Dave Richards <wr3i@earthlink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135437] Roof Tower Thoughts?  
Message-ID: <5.1.1.6.2.20020918182407.009eecc0@earthlink.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

I am sure there are those that have experience of roof towers and there pit fall if any.  
I have a two story barn that i am considering for a roof tower about 9-10 ft tall  
I will be using it for a variety of yagi antennas and don't want to dig another hole for a proper tower.  
Thoughts please Chaps  
Dave  
WR3I

-----  
Date: Wed, 18 Sep 2002 18:25:24 -0400  
From: "Mike Yetsko" <myetsko@insydesw.com>  
To: <schoon@amgt.com>,

"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135438] Re: Antenna Launching Hints!  
Message-ID: <00e601c25f62\$56daaa80\$0300a8c0@charter.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Any time you use ANY feed line from a launcher, remember that a line snag can cause a weight to come right back at the launcher!

First off, ALWAYS wear eye protection. And maybe a helmet!

But, if you insist on feeding line from a 'reel' to be launched, go get a reel DESIGNED to feed line at high speed. They are 'conical'. Available at a lot of gun shops for 'archery fishing'.

Mike

-----  
Date: Wed, 18 Sep 2002 18:30:40 -0400  
From: "K7SZ" <rarland@earthlink.net>  
To: <w4qo@amsat.org>, "qrp-l list" <qrp-l@lehigh.edu>  
Subject: [135439] Re: Great QRP column by K7SZ  
Message-ID: <001901c25f63\$0572b600\$29312940@rich>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Thanks, Jim.

For repo permission just contact Joel Kleinman, N1BKE, at the League (jkleinman@arrl.org).

73 Rich K7SZ

----- Original Message -----  
From: "Jim Stafford" <jim@byjimeny.com>  
To: "qrp-l list" <qrp-l@lehigh.edu>  
Sent: Wednesday, September 18, 2002 12:23 PM  
Subject: QST: Great QRP column by K7SZ

> I found this month's (October QST) edition of Rich's QRP Power column  
> extremely informative. It would make a great piece (with permission)

> for any QRP club as a handout at hamfests to "tell who we are". In the  
> past, I have found the ARRL to be very accomodating with their  
> permission if you put a little spot at the bottom telling where you got  
> it and how to contact them. You'd have to check with them.  
>  
> Keep up the great work Rich.  
>  
> --  
> Jim Stafford  
> Amateur Radio [www.w4qo.com](http://www.w4qo.com)  
> Routing Information [www.routercraft.com](http://www.routercraft.com)  
> Married to: [www.mariquilt.com](http://www.mariquilt.com)  
> 11395 West Road, Roswell, GA 30075  
>  
>  
>

-----  
Date: Wed, 18 Sep 2002 17:46:46 -0500  
From: Nick Kennedy <[nkennedy@tcainternet.com](mailto:nkennedy@tcainternet.com)>  
To: "'[steve@eclipsecat.com](mailto:steve@eclipsecat.com)'" <[steve@eclipsecat.com](mailto:steve@eclipsecat.com)>,  
Low Power Amateur Radio Discussion <[qrp-l@lehigh.edu](mailto:qrp-l@lehigh.edu)>  
Subject: [135440] RE: OT -- Radio Frequency Spectrum Chart needed  
Message-ID: <01C25F3B.5C417CA0.nkennedy@tcainternet.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

I recently got a nice one by filling in a form on the Fair-Rite page. From 0.5 to 4000 MHz, it shows where the various services are. And it also show what ranges are best for certain types of ferrite products.

72--Nick, WA5BDU

-----Original Message-----

From: Steve Blary [SMTP:[steve@eclipsecat.com](mailto:steve@eclipsecat.com)]  
Sent: Wednesday, September 18, 2002 3:18 PM  
To: Low Power Amateur Radio Discussion  
Subject: RE: OT -- Radio Frequency Spectrum Chart needed

maybe I should be more specific <G> looking for some thing that will meet the below requirments.



-----  
Date: Wed, 18 Sep 2002 18:45:51 -0400  
From: "Mike Yetsko" <myetsko@insydesw.com>  
To: <kc8aon@juno.com>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [135441] Re: Used EZ-Hang or Equivalent Device  
Message-ID: <018a01c25f65\$2d70d4a0\$0300a8c0@charter.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

----- Original Message -----

From: "Rick McKee" <kc8aon@juno.com>

>  
> >Many localities prohibit slingshots for safety reasons.  
>  
> Then why not prohibit ball bats, golf clubs, knitting needles, sharp  
> pointed scissors,  
> SHEEEEEEESE ! where will the commies stop ?  
>  
> Rick McKee

You really think you can predict how politicians will act, or assume  
at all that logic will prevail?

Here in Mass, we can own machine guns, but not slingshots. (Well, we  
MAY be able to own them now, it's not certain!)

Mike

-----  
End of QRP-L Digest 2682

\*\*\*\*\*  
-----